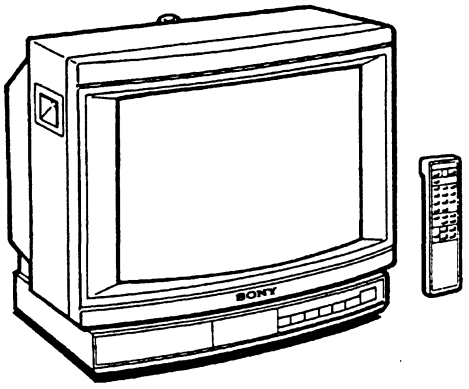
KV-1984MT
RM-687C

SERVICE MANUAL

OIRT Model

Chassis No. SCC-D26C-A



GP-1A CHASSIS

Note: The service manual for RM-687C has been issued separately.

MODELS OF THE SAME SERIES	
KV-1984MT/AS	KV-1434M3
KV-2184MT/AS	KV-1484MT/AS
KV-2134M3	

SPECIFICATIONS

Television system: M, B/G, I, D/K
Color system: PAL, SECAM, NTSC3.58, NTSC4.43

Channel coverage

Television system	M	B/G	I	D/K
Low VHF band	A2 - A6	E2 - E4	–	R1 - R5
High VHF band	A7 - A13	E5 - E12	–	R6 - R12
UHF	A14 - A79	E21 - E69	B21 - B68	R21 - R60

Picture tube: Trinitron tube
Approx.49cm (19 inches)
(Approx.46cm picture measured diagonally)

Antenna: 75-ohm standard coaxial socket

Speaker: Approx.9×5cm

Audio output: 2W

Input: VIDEO IN/AUDIO IN jacks : phono jacks
Video : 1Vp-p,75 ohms
Audio : 500mVrms,high impedance

Power requirements: 110-240VAC,50/60Hz

Power consumption: 85W

Dimensions (w/h/d): Approx.472×439×462mm ($18\frac{5}{8}\times17\frac{1}{4}\times18\frac{1}{4}$ inches)

Weight: Approx.19kg(41lb)

Accessories suppild:
RM-687C Remote commander(1)
R6(sizeAA)batteries(2)
VHF telescopic dipole antenna(1)
Antenna connector(300-75ohm matching transformer is built in.)(1)
AC power cord plug adaptor(1)

Design and specifications are subject to change without notice.

MICROFILM

TRINITRON® COLOR TV

SONY®

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WARNING !!

AN ISOLATION TRANSFORMER SHOULD BE USED DURING ANY SERVICE TO AVOID POSSIBLE SHOCK HAZARD, BECAUSE OF LIVE CHASSIS.
THE CHASSIS OF THIS RECEIVER IS DIRECTLY CONNECTED TO THE AC POWER LINE.

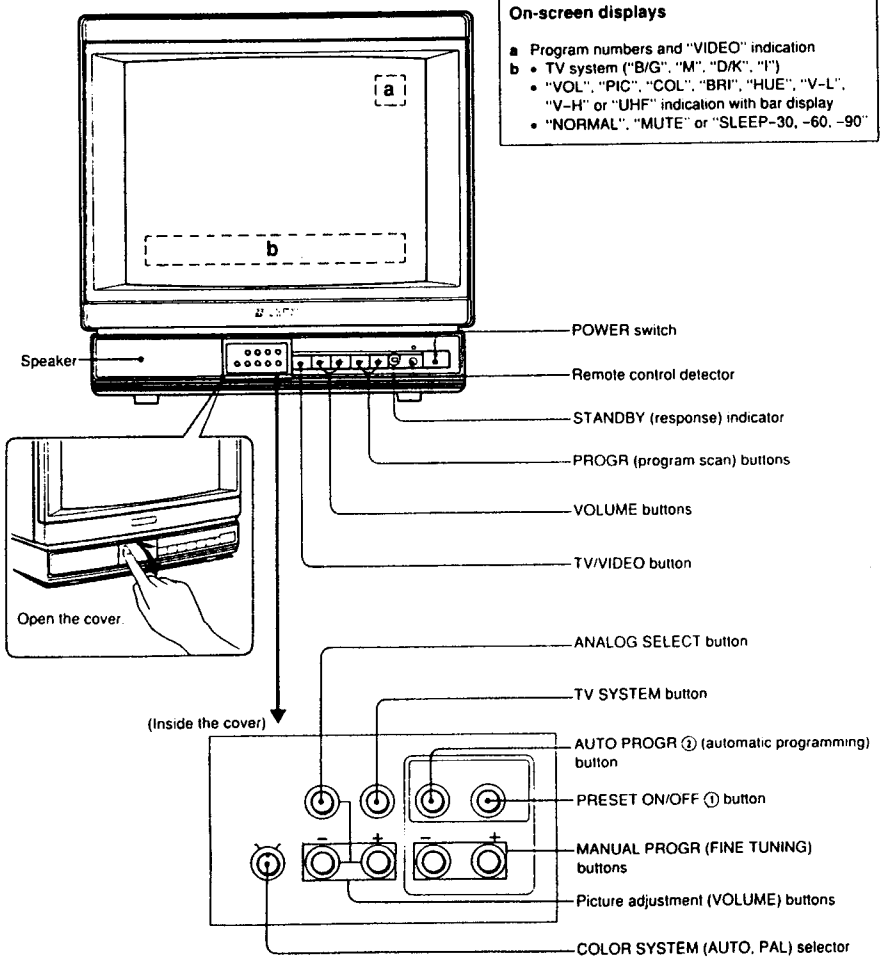
SAFETY-RELATED COMPONENT WARNING !!

COMPONENTS IDENTIFIED BY SHADING AND MARK ⚠ ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

SECTION 1
GENERAL

1-1. PARTS IDENTIFICATION

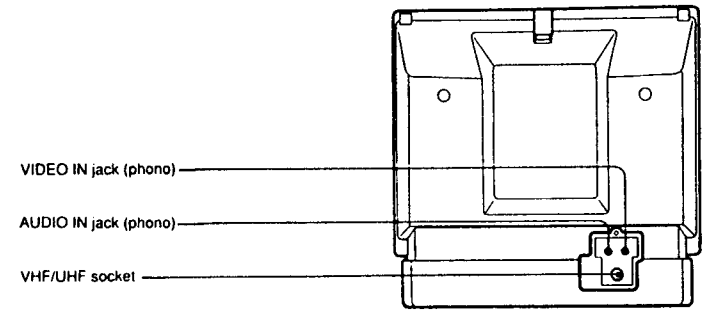
Front



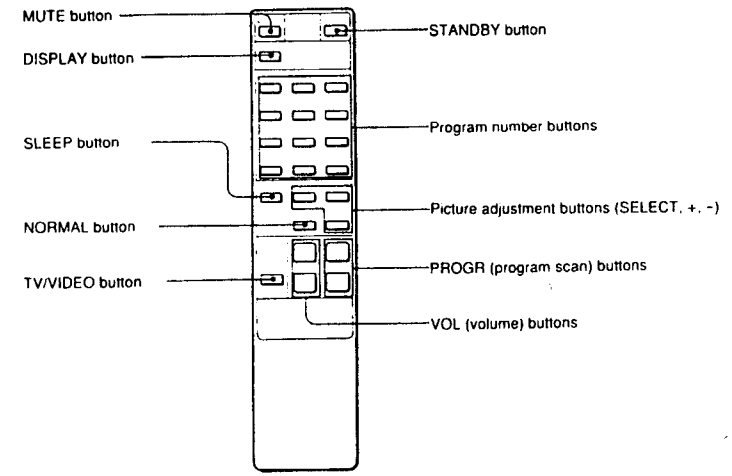
On-screen displays

a Program numbers and "VIDEO" indication
b • TV system ("B/G", "M", "D/K", "I")
• "VOL", "PIC", "COL", "BRI", "HUE", "V-L", "V-H" or "UHF" indication with bar display
• "NORMAL", "MUTE" or "SLEEP-30, -60, -90"

Rear

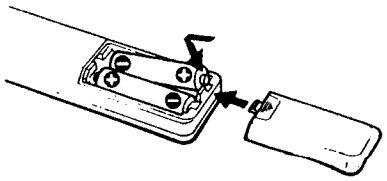


Remote commander RM-687C



Battery installation

Insert the supplied two R6 (size AA) batteries with correct polarity.

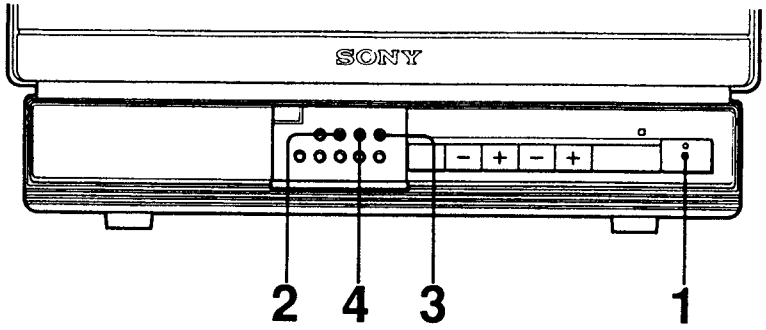


Notes on batteries

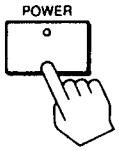
- In normal operation, batteries will last up to half a year. If the unit does not operate properly, the batteries might be exhausted. Replace them with new ones.
- To avoid damage from possible battery leakage, remove the batteries for extended unused periods.

1-2. PRESETTING THE RECEIVABLE CHANNELS

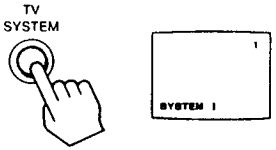
Automatic Presetting



1 **Turn the TV on.**

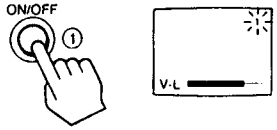


2 **Select the TV system.** (See page 8.)



3 **Press PRESET ON/OFF ①.**

Program number on the screen blinks.
A colored segmented bar appears to indicate approximate location of the channel being tuned in.

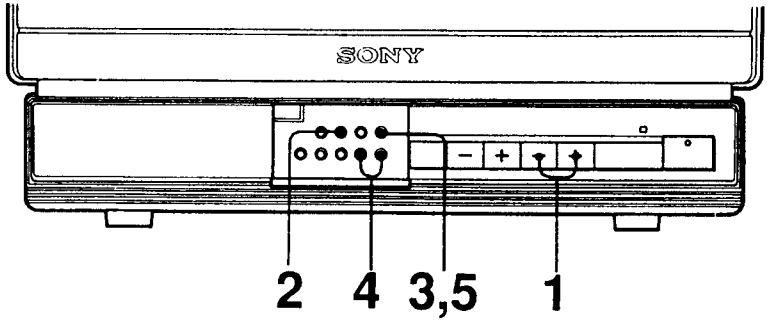


4 **Press AUTO PROGR ②.**

Up to 30 receivable channels are preset in numerical sequence beginning from program number 1. When all receivable channels are preset, the program number 1 lights steadily on the screen and the programming mode is automatically released.

While presetting, the program numbers blink.

Manual Presetting

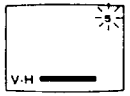


To change the order of a channel which was set earlier, use manual presetting.
Also use manual presetting to set channels with weak signals, as the unit is designed to memorize only channels with fairly strong signals when automatically presetting the receivable channels.

1 **Press PROGR +/– to select the desired Pprogram position.**

2 **Set the TV system.**

3 **Press PRESET ON/OFF.**
Program number on the screen blinks.
A colored segmented bar appears to indicate approximate location of the channel being tuned in.



4 **Press MANUAL PROGR (FINE TUNING) repeatedly until the desired channel appears.**
+: to scan higher-frequency channels
–: to scan lower-frequency channels

5 **Press PRESET ON/OFF again.**

Repeat steps 1 through 5 for other desired channels.

Selecting the TV system

Select the proper TV system that can be received in your area.
Each time TV SYSTEM is pressed, the indications appear in the following order:

B/G → M → D/K → I

B/G: West European TV system
M: American TV system
D/K: East European TV system
I: British TV system

Notes

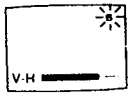
- If more than one TV system can be received in your area, select the main TV system of the area. All receivable channels can be preset in the selected TV system. Resetting of TV system is described in "Watching TV programs".
- Wrong setting of the TV system causes the distorted, or noisy sound, or abnormal color.
- The TV system setting is memorized for each program position. Therefore, the TV system can be reset for only the desired program position without affecting other program positions.

Skipping Unused Program Positions

After presetting channels, unused or undesired program positions can be skipped.

1 Turn the TV on.

2 Press PRESET ON/OFF.
Program number on the screen blinks.
A colored segmented bar appears to indicate approximate location of the channel being tuned in.



3 Press PROGR to select the position to be skipped.

4 Press NORMAL on the commander.

Repeat steps 3 and 4 for other positions to be skipped.

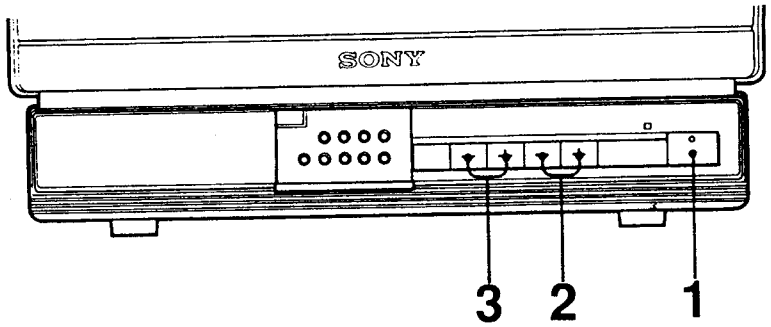
5 Press PRESET ON/OFF.

Restoring the skipped channel

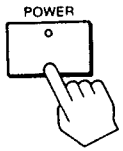
1 Select the position to be restored using the program number button on the commander.

2 Perform steps 2 through 5 in "Manual presetting".

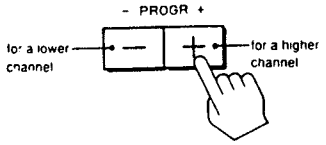
Otherwise, perform automatic presetting and reset all channels.



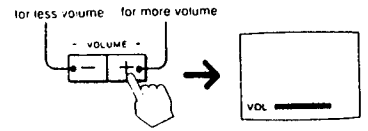
1 Turn the TV on.



2 Select the desired channel.



3 Adjust the volume.



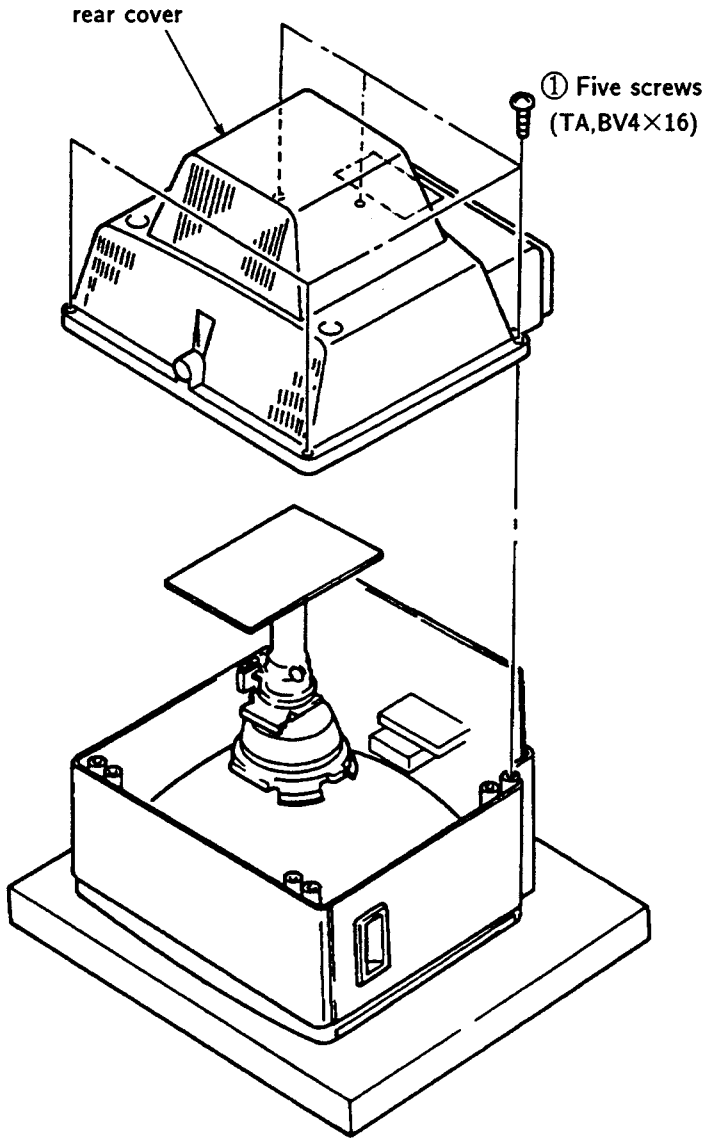
	Commander	TV
To turn off the TV for a short period of time	Press STANDBY.	—
To turn on the TV from the standby mode	Press a program number or PROGR buttons.	Press PROGR + or - button.
To cut off the power completely	—	Press POWER.
To keep the channel display (program number and "VIDEO" indication) on the screen	Press DISPLAY.	—
To turn off the program number display	Press DISPLAY.	—
To display the TV system indication	Press DISPLAY.	Press TV SYSTEM.

The STANDBY (response) indicator blinks when the button on the TV or on the commander is pressed. It lights steadily when the TV is turned off with the STANDBY button on the commander.

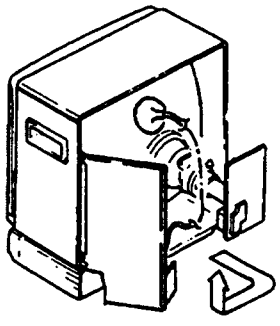
SECTION 2
DISASSEMBLY

2-1. REAR COVER REMOVAL

Note: Follow the disassembly procedure in the numerical over givem.



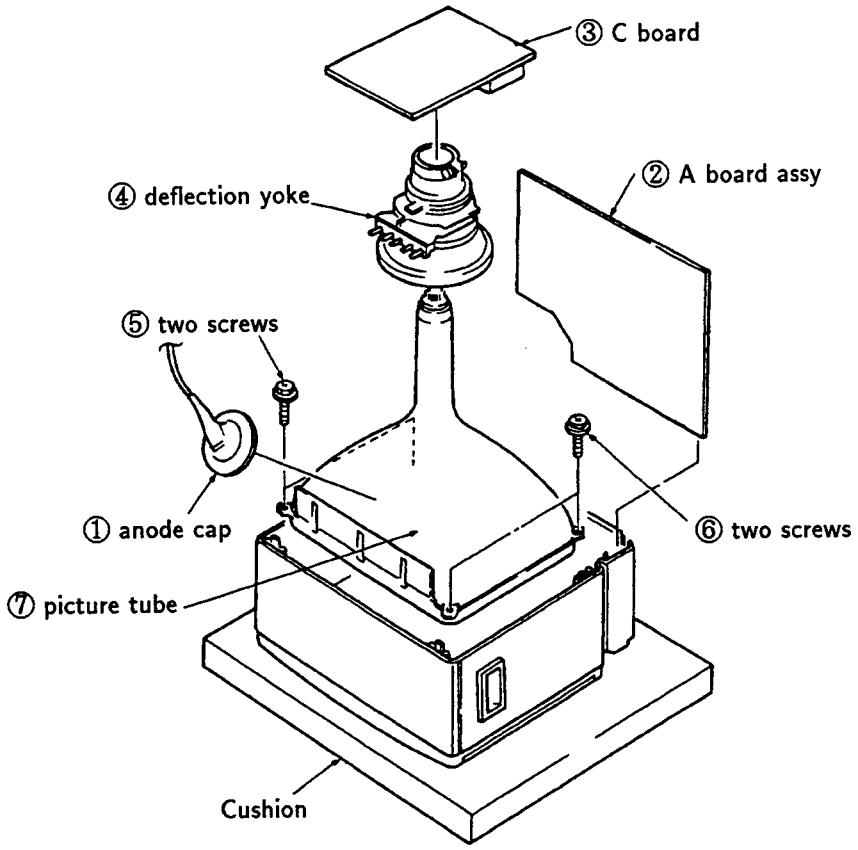
SERVICE POSITION FOR A BOARD



A board
Pull out A block assy
to the direction shown
by the arrow.

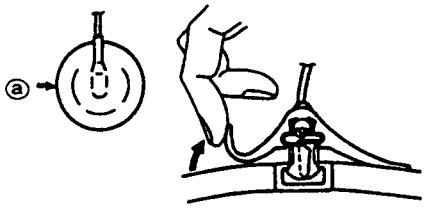
CAUTION :
Do not place the control volumes and switches down to the working bench.
It is fragile.

2-2. PICTURE TUBE REMOVAL

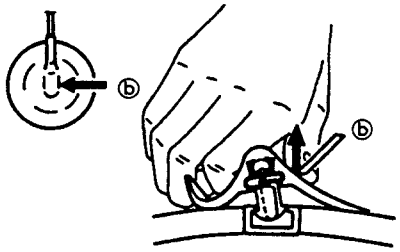


· REMOVAL OF ANODE-CAP

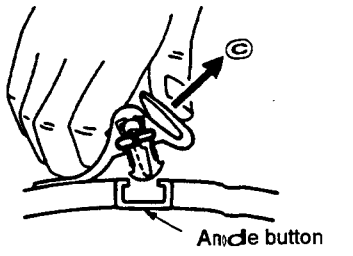
· REMOVING PROCEDURES



① Turn up one side of the rubber cap in the direction indicated by the arrow ⓐ.



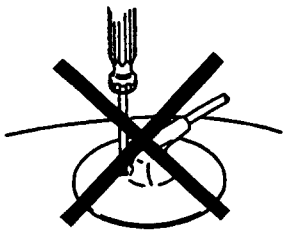
② Using a thumb pull up the rubber cap firmly in the direction indicated by the arrow ⓑ.

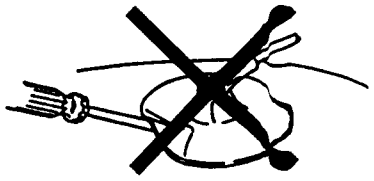


③ When one side of the rubber cap is separated from the anode button, the anode-cap can be removed by turning up the rubber cap and pulling up it in the direction of the arrow ⓒ.

• HOW TO HANDLE AN ANODE-CAP

① Don't hurt the surface of anode-caps with sharp shaped material !
② Don't press the rubber hardly not to hurt inside of anode-caps !
A metal fitting called as shatter-hook terminal is built in the rubber.
③ Don't turn the foot of rubber over hardly !
The shatter-hook terminal will stick out or hurt the rubber.





SECTION 3
SET-UP ADJUSTMENTS

- The following adjustments should be made when a complete realignment is required or a new picture tube is installed.
- These adjustments should be performed with rated power supply voltage unless otherwise noted.

The contros and switch should be set as follows unless otherwise noted :

PICTURE control .....normal
BRIGHTNESS control ....normal

Perform the adjustments in order as follows:

1. Beam Landing
2. Convergence
3. Focus
4. White Balance

Note: Test Equipment Required.

1. Color bar Pattern Generator
2. Degausser
3. DC Power Supply
4. Digital multimeter

Preparation:

- Feed in the white pattern signal.
- Before starting, degauss the entire screen.

3-1. BEAM LANDING

1. Input a raster signal with the pattern generator.
2. Loosen the deflection yoke mounting screw, and set the purity control to the center as shown in Fig.2
3. Turn the raster signal of the pattern generator to green.
4. Move the deflection yoke backward, and adjust with the purity control so that green is in the center and red and blue are at the sides evenly. (Fig.3)
5. Move the deflection yoke forward, and adjust so that the entire screen becomes green. (Fig.1)
6. Switch over the raster signal to red and blue and confirm the condition.
7. When the position of the deflection yoke is determined, tighten it with the deflection yoke mounting screw.
8. When landing at the corner is not right, adjust by using the disk magnets. (Fig.4)

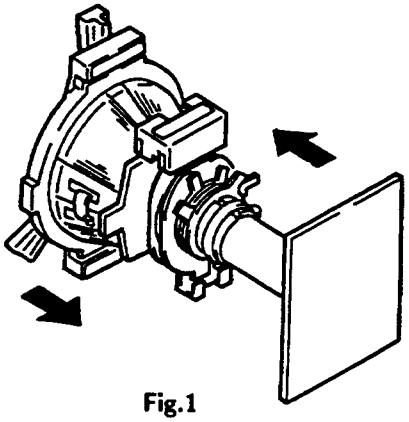


Fig.1

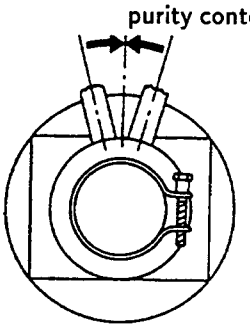


Fig.2

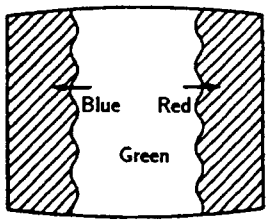


Fig.3

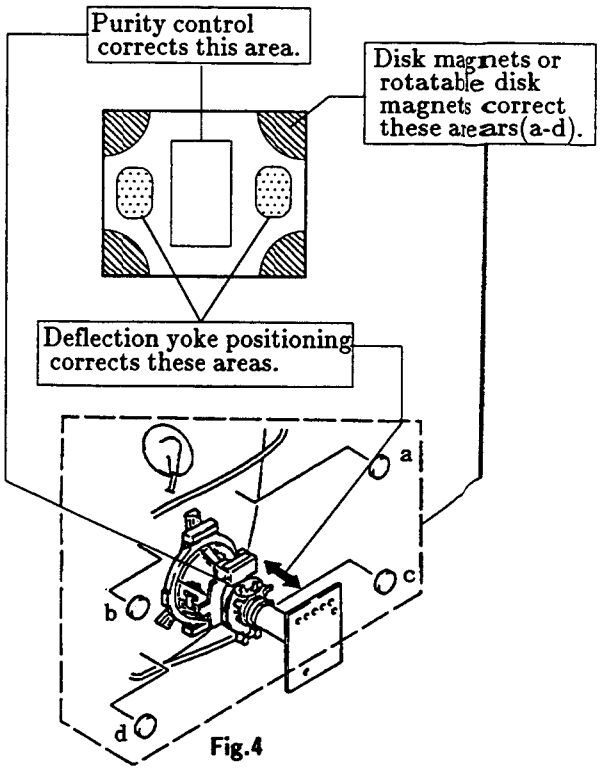


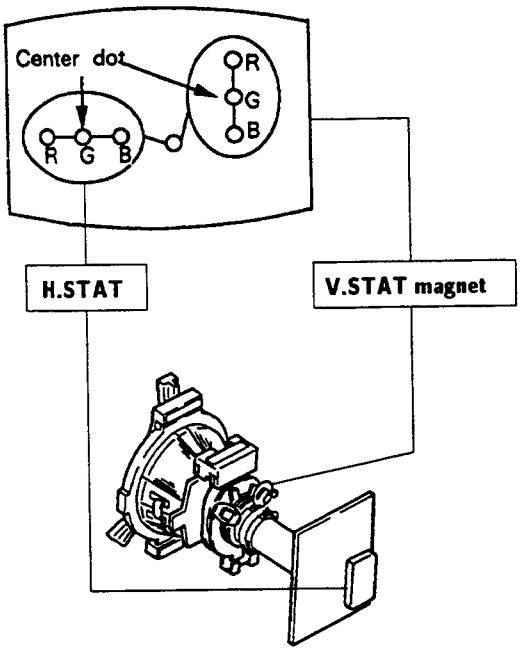
Fig.4

3-2. CONVERGENCE

Preparation:

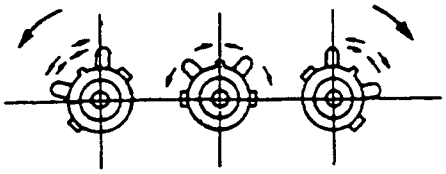
- Before startin,perform FOCUS, H.SIZE, V.LIN and V.SIZE adjustments.
- Set BRIGHTNESS control to minimum.
- Feed in dot pattern.

(1) Horizontal and Vertical Static Convergence

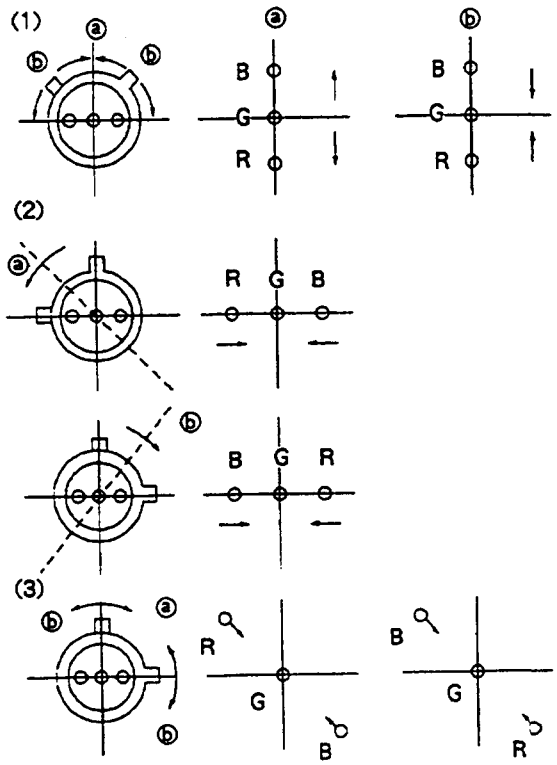


1. Adjust H.STAT VR to converge red, green and blue dots the in center of the screen.(Horizontal movement)
2. Adjust V. STAT magnet to converge red, green and blue dots in the center of the screen. (Vertical movement)
3. If the red, green and blue dots do not converge on the center of screen with H.STAT VR, perform horizon-tal convergence adjustment using H.STAT VR and V.STAT magnet as shown below. (In this case, H.STAT VR and V.STAT magnet effect each other.)

- Tilt the V.STAT magnet and adjust static convergence to open or close the V.STAT magnet.



4.When the V.STAT magnet is moved in the direction of arrow ⓐ and ⓑ, red, green and blue dots move as shown below.

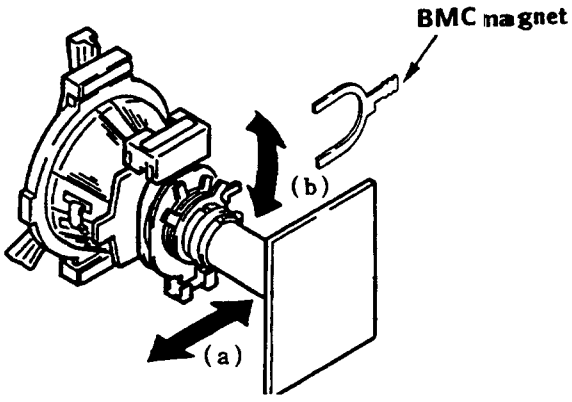


If the blue dot does not converge with red and green dots, perform following steps.

Move BMC magnet (a) to correct insufficient H.static convergence.

Rotate BMC magnet (b) to correct insufficient V.static convergence.

In either case, repeat Beam Landing Adjustment.

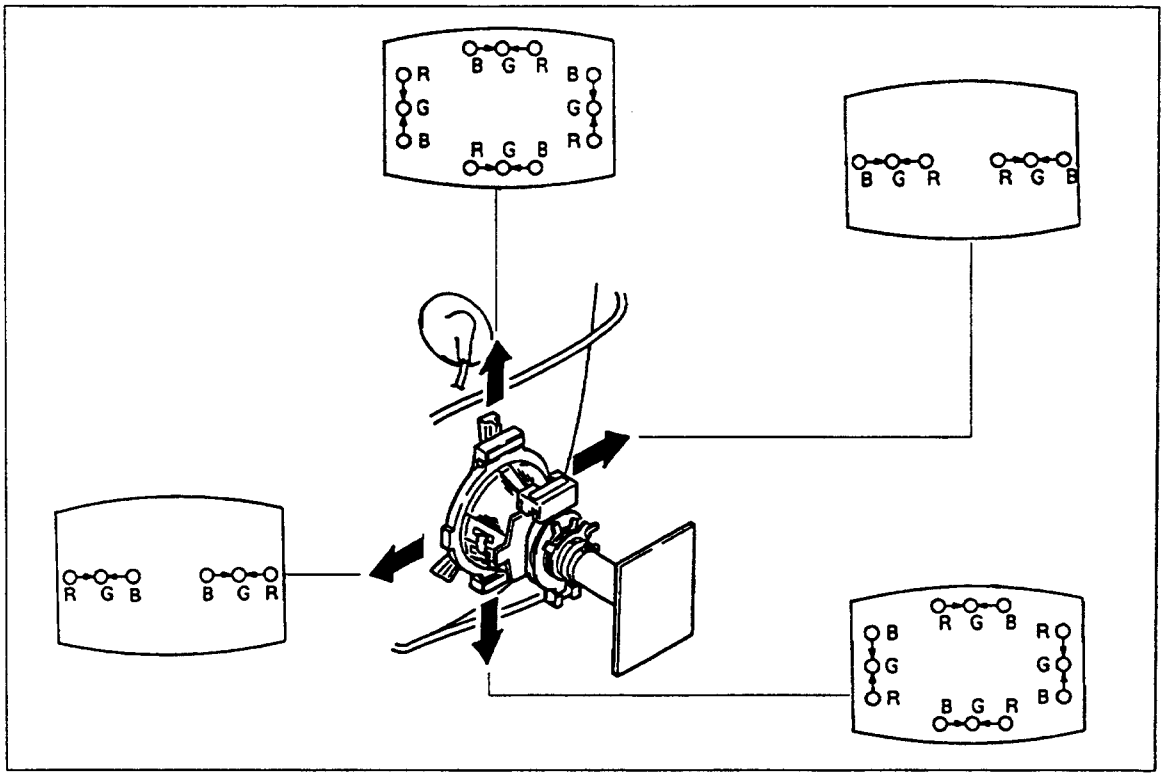


(2)Dynamic Convergence Adjustment

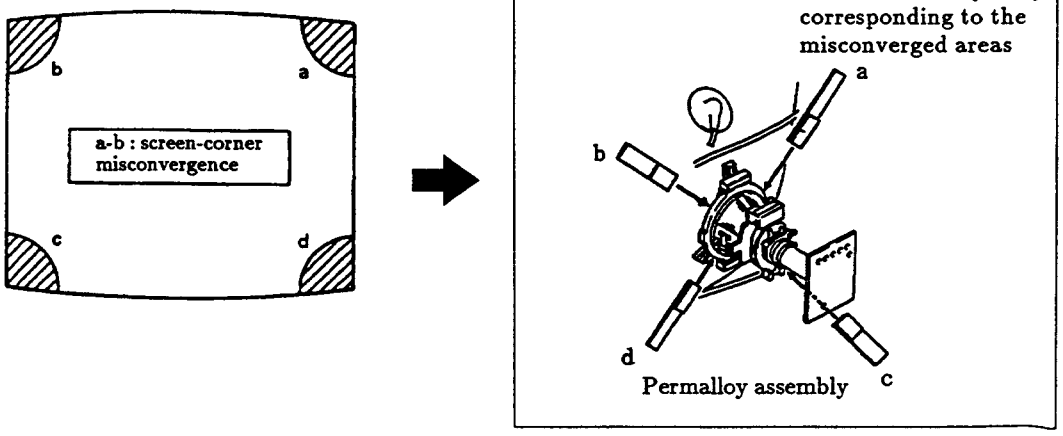
Preparation:

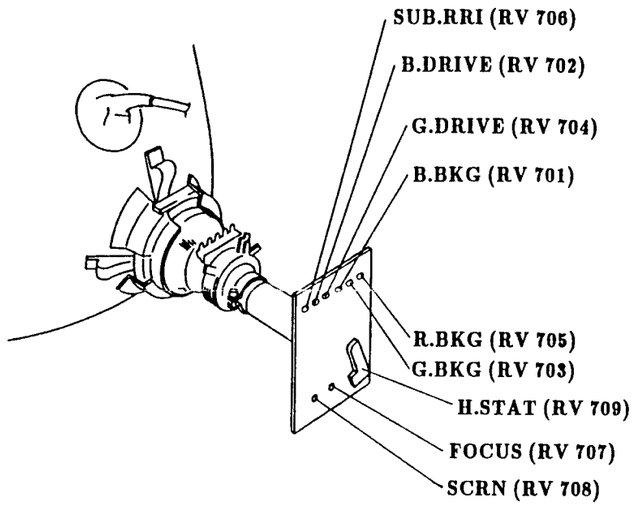
● Before starting perform Horizontal and Vertical static convergence Adjustment.

1. Slightly loosen deflection yoke screw.
2. Remove deflection yoke spacers.
3. Move the deflection yoke for best convergence as shown below.
4. Tighten the deflection yoke screw.
5. Install the deflection yoke spacers.



(3) Screen-corner Convergence





3-3. FOCUS

Adjust FOCUS control for best picture.

3-4. SCREEN(G 2) and WHITE BALANCE

[SCREEN(G2)]

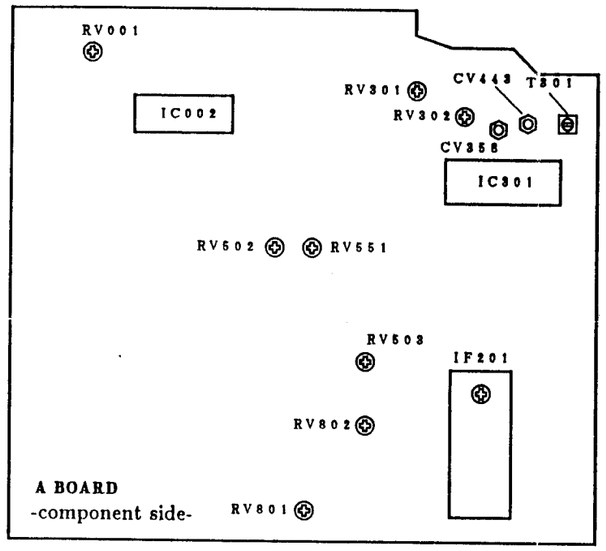
1. Input a dots pattarn.
2. Set the PIC,BRT controls at minimum and COLOR control at normal.
3. Confirm the BKG voltage is less than 165 Vdc when turning RV 701 (R.BKG), RV 703 (G.BKG) and RV 705 (B.BKG).
4. Note the color when becomes visible first when turning RV708 (SCRN).

[WHITE BALANCE(Cut off)]

1. Input a collor-bar signl.
2. Set the PIC control to minimum and set the BRT control at normal.
3. Turn RV 704 (B.DRIVE) and RV 702 (G.DRIVE) fully clockwise.
4. Set RV701 (R.BKG), RV703 (G.BKG) and RV705 (B.BKG) to minimum.
5. Turn RV 709 (SUB BRT) slowly to obtain a faintly visible blue stripe.
6. Switch over all white signal.
7. Adjust BKG controls for best white balance.
8. Set the PICTURE control to maximum. Observe the screen and adjust the DRIVE controls for best white balance.
9. Repeat steps 7 and 8.

SECTION 4
CIRCUIT ADJUSTMENTS

4-1. A BOARD ADJUSTMENTS



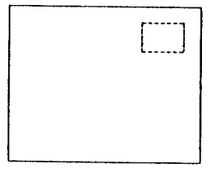
IF201 (RF AGC)
CV358 (APC.NTSC)
CV443 (APC.PAL)
RV001 (CH DISPLAY)
RV301 (DELAY)
RV302 (PHASE)
RV502 (V.LIN)
RV503 (V.SIZE)
RV551 (V.CENT)
RV801 (H.CENT)
RV802 (H.SIZE)
T301 (DAT)LINE CRAWL

RF AGC ADJUSTMENT (IF201)

1. Receive a strong off-air signals.
2. Adjust RF AGC VR control so that snow noise and cross-modulation just disappear from the picture.

CHANNEL DISPLAY POSITION ADJUSTMENT (RV001)

1. Set PIC control to maximum.
2. Adjust RV001 so that the channel display should be positioned at up-right on the screen.



A • P • C ADJUSTMENT (CV443)..... (PAL)

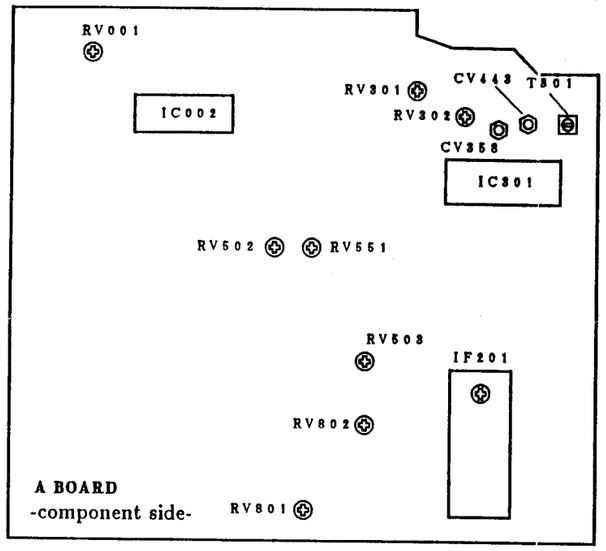
1. Short circuit between pin ④ and pin ㊼ of IC301 with jumper.
2. Input the PAL color-bar signal.
3. Set the PIC, COL, and BRT controls to normal.
4. Adjust CV443 for suitable color intensity.
5. Remove a jumper.

A • P • C ADJUSTMENT (CV358)..... (NTSC)

1. Short circuit between pin ④ and pin ㊼ of IC301 with a jumper.
2. Input NTSC 3.58 color-bar signal.
3. Set the PIC,COL and BRT controls to normal.
4. Adjust CV358 for suitable color intensity.
5. Remove the jumper.

SECTION 4
CIRCUIT ADJUSTMENTS

4-1. A BOARD ADJUSTMENTS



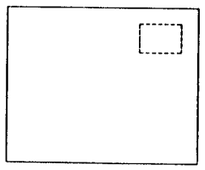
IF201 (RF AGC)
CV358 (APC.NTSC)
CV443 (APC.PAL)
RV001 (CH DISPLAY)
RV301 (DELAY)
RV302 (PHASE)
RV502 (V.LIN)
RV503 (V.SIZE)
RV551 (V.CENT)
RV801 (H.CENT)
RV802 (H.SIZE)
T301 (DAT)LINE CRAWL

RF AGC ADJUSTMENT (IF201)

1. Receive a strong off-air signals.
2. Adjust RF AGC VR control so that snow noise and cross-modulation just disappear from the picture.

CHANNEL DISPLAY POSITION ADJUSTMENT (RV001)

1. Set PIC control to maximum.
2. Adjust RV001 so that the channel display should be positioned at up-right on the screen.



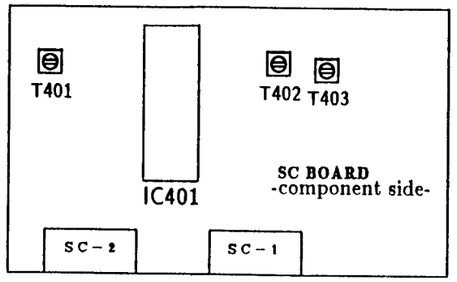
A • P • C ADJUSTMENT (CV443)..... (PAL)

1. Short circuit between pin ④ and pin ㊼ of IC301 with jumper.
2. Input the PAL color-bar signal.
3. Set the PIC, COL, and BRT controls to normal.
4. Adjust CV443 for suitable color intensity.
5. Remove a jumper.

A • P • C ADJUSTMENT (CV358)..... (NTSC)

1. Short circuit between pin ④ and pin ㊼ of IC301 with a jumper.
2. Input NTSC 3.58 color-bar signal.
3. Set the PIC,COL and BRT controls to normal.
4. Adjust CV358 for suitable color intensity.
5. Remove the jumper.

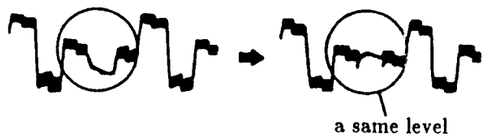
4-2.SC BOARD ADJUSTMENTS



T401 (DISCRI)
T402 (DISCRI)
T403 (BELL FILTER)

DISCRI ADJUSTMENT (T401,T402)

1.Input the SECAM color-bar signal.
2.Connect the dual-trace oscilloscope to the pin ④ (B-Y) and pin ③ (R-Y) of SC-1 connector.
3.Adjust T402 (R-Y) and T401 (B-Y) as shown the following figure.



BELL FILTER ADJUSTMENT (T403)

1.Input the SECAM color-bar signal.
2.Connect the oscilloscope to pin ③ (R-Y) of SC-1 connector.
3.Adjust T403 as shown the following figure.

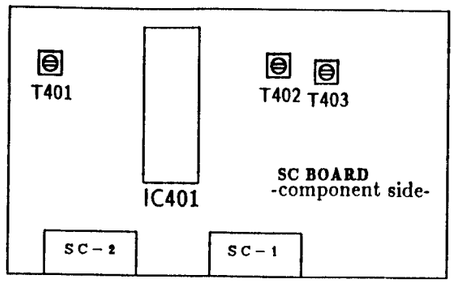
ANTI PAL, LINE C
(RV301,RV302,T

• ANTI PAL ADJ
1.Input the PAL
2.Set the PIC,CO
3.Connect the osc
connector.
4.Adjust RV301
obtain the wav

wrong pattern

• LINE CRAWLI
1.Input the PAL
2.Set the PIC,CO
3.Connect the osc
connector.
4.Adjust T301 fo

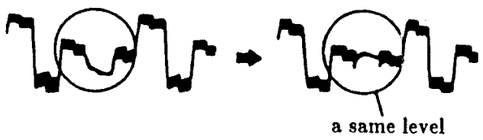
4-2.SC BOARD ADJUSTMENTS



T401 (DISCRI)
T402 (DISCRI)
T403 (BELL FILTER)

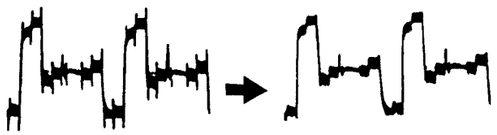
DISCRI ADJUSTMENT (T401,T402)

1.Input the SECAM color-bar signal.
2.Connect the dual-trace oscilloscope to the pin ④ (B-Y) and pin ③ (R-Y) of SC-1 connector.
3.Adjust T402 (R-Y) and T401 (B-Y) as shown the following figure.



BELL FILTER ADJUSTMENT (T403)

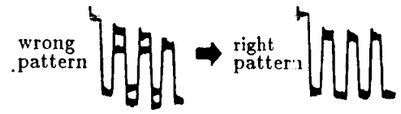
1.Input the SECAM color-bar signal.
2.Connect the oscilloscope to pin ③ (R-Y) of SC-1 connector.
3.Adjust T403 as shown the following figure.



ANTI PAL, LINE CRAWLING ADJUSTMENT (RV301,RV302,T301)

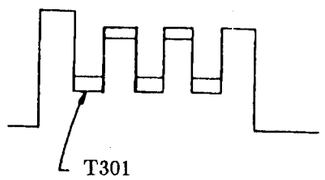
• ANTI PAL ADJUSTMENT

1.Input the PAL color-bar signal.
2.Set the PIC,COL and BRT controls to normal.
3.Connect the oscilloscope to pin ③ of A-1 connector.
4.Adjust RV301 (DELAY) and RV302(PHASE) to obtain the waveform as shown below.

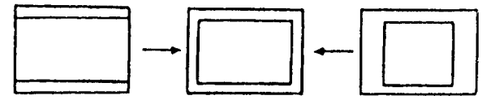


• LINE CRAWLING ADJUSTMENT

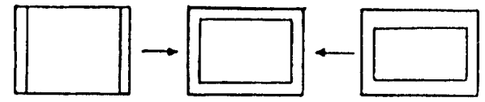
1.Input the PAL color-bar signal.
2.Set the PIC,COL and BRT controls to normal.
3.Connect the oscilloscope to pin ③ of A-1 connector.
4.Adjust T301 for minimum line crawling.



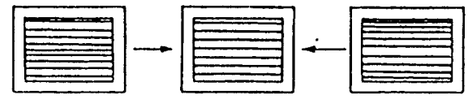
RV802 H.SIZE (HORIZONTAL SIZE)



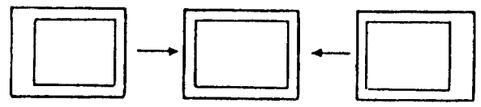
RV503 V.SIZE (VERTICAL SIZE)



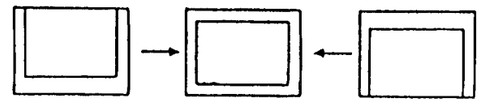
RV502 V.LIN (VERTICAL LINEARITY)



RV801 H.CENT (HORIZONTAL CENTER)

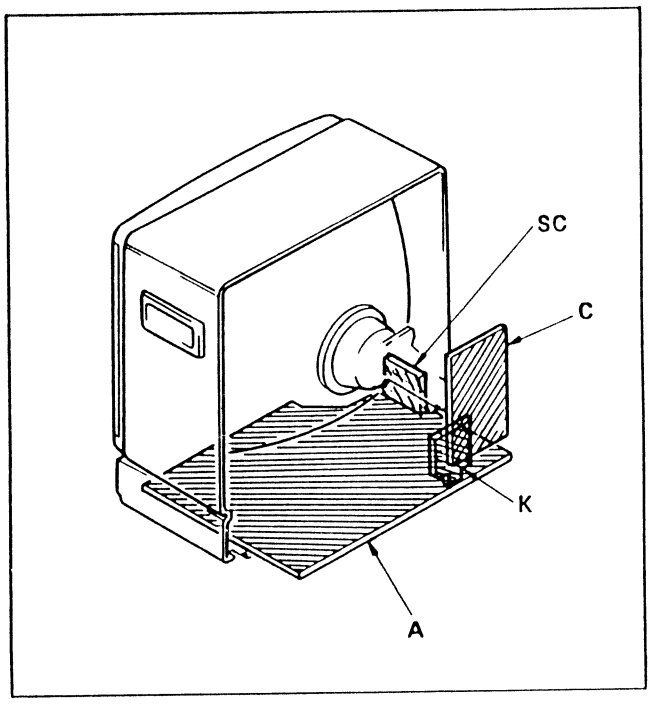


RV551 V.CENT (VERTICAL CENTER)



SECTION 5
DIAGRAMS

5-1. CIRCUIT BOARDS LOCATION



Note:

- All capacitors are in μF unless otherwise noted. pF: μμF 50 WV or less are not indicated except for electrolytics.
- Indication of resistance, which does not have one for rating electrical power, is as follows.

  Pitch: 5 mm
  Rating electrical power ¼ W
- All resistors are in ohms.
- : nonflammable resistor.
- : fusible resistor.
- △ : internal component.
- ▭ : panel designation, and adjustment for repair.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- All voltages are in V.
- Readings are taken with a 10 MΩ digital multimeter.
- Readings are taken with a color-bar signal input.
  no mark : with PAL color-bar signal received.
  ( ) : with SECAM color-bar signal received.
- Voltage variations may be noted due to normal production tolerances.
- ▬ : B + bus.
- ▒ : signal path.

Reference Information

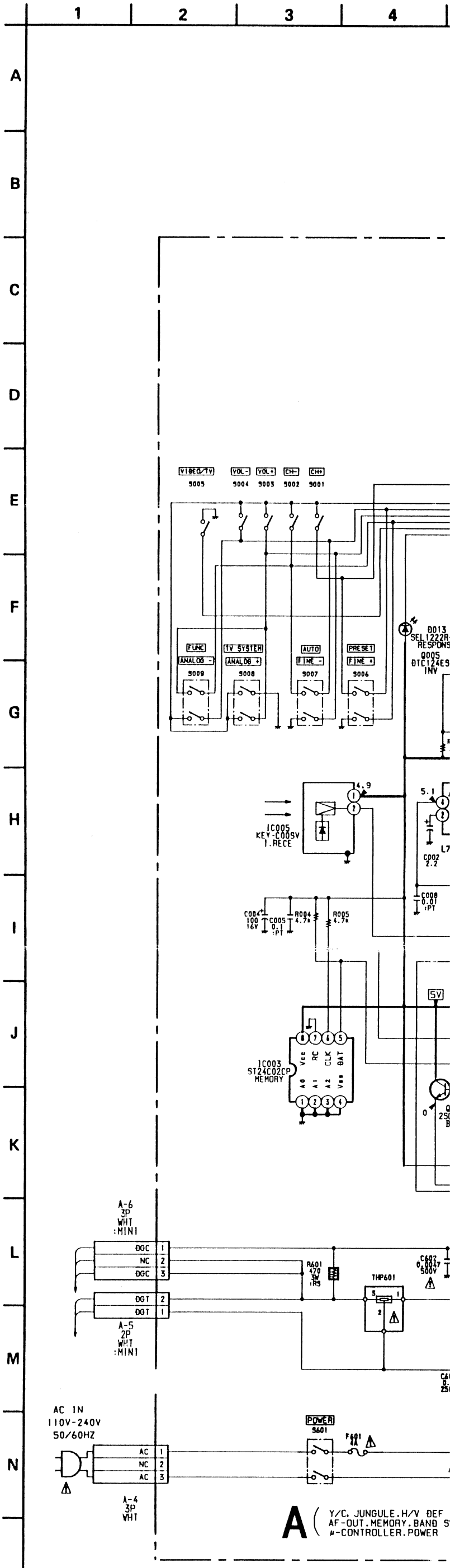
RESISTOR	: RN	METAL FILM
	: RC	SOLID
	: FPRD	NONFLAMMABLE CARBON
	: FUSE	NONFLAMMABLE FUSIBLE
	: RW	NONFLAMMABLE WIREWOUND
	: RS	NONFLAMMABLE METAL OXIDE
	: RB	NONFLAMMABLE CEMENT
COIL	: LF-8L	MICRO INDUCTOR
CAPACITOR	: TA	TANTALUM
	: PS	STYROL
	: PP	POLYPROPYLENE
	: PT	MYLAR
	: MPS	METALIZED POLYESTER
	: MPP	METALIZED POLYPROPYLENE
	: ALB	BIPOLAR
	: ALT	HIGH TEMPERATURE
	: ALR	HIGH RIPPLE

Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

A BOARD WAVEFORM

① 2 Vp-p (H)	② 0.4Vp-p (H)	③ 0.8Vp-p (H)
④ 1.1Vp-p (4.43MHZ)	⑤ 0.2Vp-p (3.58MHZ)	⑥ 3.9 Vp-p (H)
⑦ 3.9 Vp-p (H)	⑧ 3.6Vp-p (H)	⑨ 3 Vp-p (V)
⑩ 1.8Vp-p (H)	⑪ 2.2Vp-p (V)	⑫ 2 Vp-p (V)
⑬ 4.1 Vp-p (H)	⑭ 50 Vp-p (V)	⑮ 1.2Vp-p (V)
⑯ 1.4Vp-p (H)	⑰ 12.4Vp-p (H)	⑱ 840Vp-p (H)
⑲ 10 Vp-p (V)	⑳ 820Vp-p (H)	

5-2. SCHEMATIC DIAGRAM (1)



2 3 4 5 6 7 8 9 10 11 12 13

TO K BOARD

A-7 2P RED :S-MICRO

A-22 5P WHT :S-MICRO

TU151 BT-E8201

AGC VC I M U +B IF

Q151 DTA114ES BAND-VL

Q152 RD6.8ESB3 VL-DRIVE

Q153 DTA114ES BAND-VH

Q153 RD6.8ESB3 VH-DRIVE

Q154 DTA114ES BAND-U

Q154 RD6.8ESB3 U-DRIVE

L151 10μH :FLR50

AGC TP15

D155 1SS119 STOPPER

D151 RD5.1ESB2 AGC

Q202 2SC2785 DISP-BUFF

12V

IF201 IF0-380A

RF AGC IF IN VCC AFT UP AFT BN AFT OUT VOL AF OUT AF IN DE-EMPH SYS-1 DET OUT SYS-2

D201 RD2.0ESB1 DC-STOP

VIDEO

IC202 LA7016 AUDIO AUDIO-SW

D200 RD6.2ESB2 PROTECT

AUDIO

IC251 10A2007 AF-OUT

IC203 LA7016 VIDEO-SW

Q201 2SC2785 VIDEO-BUFF

VIDEO/TV VOL- VOL+ CH- CH+

S005 S004 S003 S002 S001

FUNC ANALOG - TV SYSTEM ANALOG + AUTO FINE - PRESET FINE +

S009 S008 S007 S006

D013 SEL1222R-CD RESPONSE

Q005 DTC124ES INV

D020 1SS119 STOPPER

IC002 PCA84C640P/016 CONTROLLER

R R-Y B B-Y BLK BLK HD HD VD VD RC OSC COIN TV COIN TEST TEST OSC OSC RESET RESET VIDEO 1/2 VIDEO 1/2 IR IR TV/AV TV/AV CLK/I CLK/I BLK/H BLK/H CLK CLK DATA DATA ST BY ST BY VDD VDD

P7 P6 P5 P4 P3 P2 P1 COIN VIDEO OUT 60, 50 UHF VHF H VHF L HUE PIC COL BRT VOL VC VSS

IC005 KEY-C005V 1.RECE

IC001 L78LA050-MA 5V-REG

X001 10MHz

IC003 ST24C02CP MEMORY

D021 1SS119 STOPPER

Q006 2SC2785 BUFF

5V 14V 9V

D011 RD3.3ESB1 REF

Q003 2SA1175 SYNC-SW

D010 1SS119 RECT

Q004 DTC114ES INV

Q007 2SC2785 BUFF

D008 1SS119 HUE-CONT

Q001 2SK669 VC-AMP

Q002 2SC2785 VC-FILTER

IC004 HZT33-02 33V-REG

CP002 220P*6

D864 GP08D STOPPER

A-6 3P WHT :MINI

DGC NC DGC DGT DGT

A-5 2P WHT :MINI

AC NC AC

A-4 3P WHT

D601 KBU4J-6088 AC-RECT

THP601

POWER S601

F601 4A

T601

T602 SRT

D602 RGP10G 14V-RECT

D604 RGP15J 115V-DUMPER

D605 RGP10G CLAMP-1

D606 RGP10G CLAMP-2

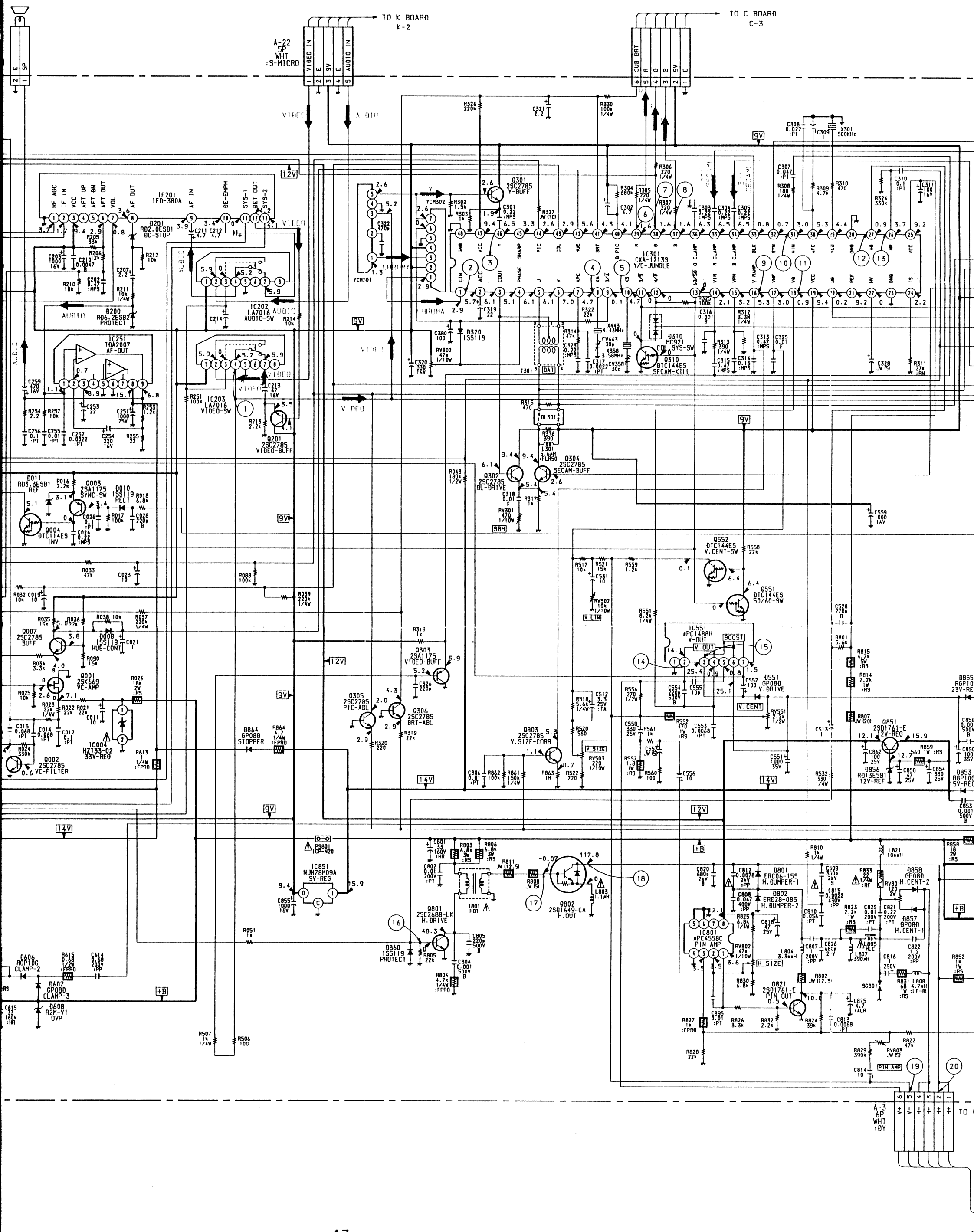
D607 GP08D CLAMP-3

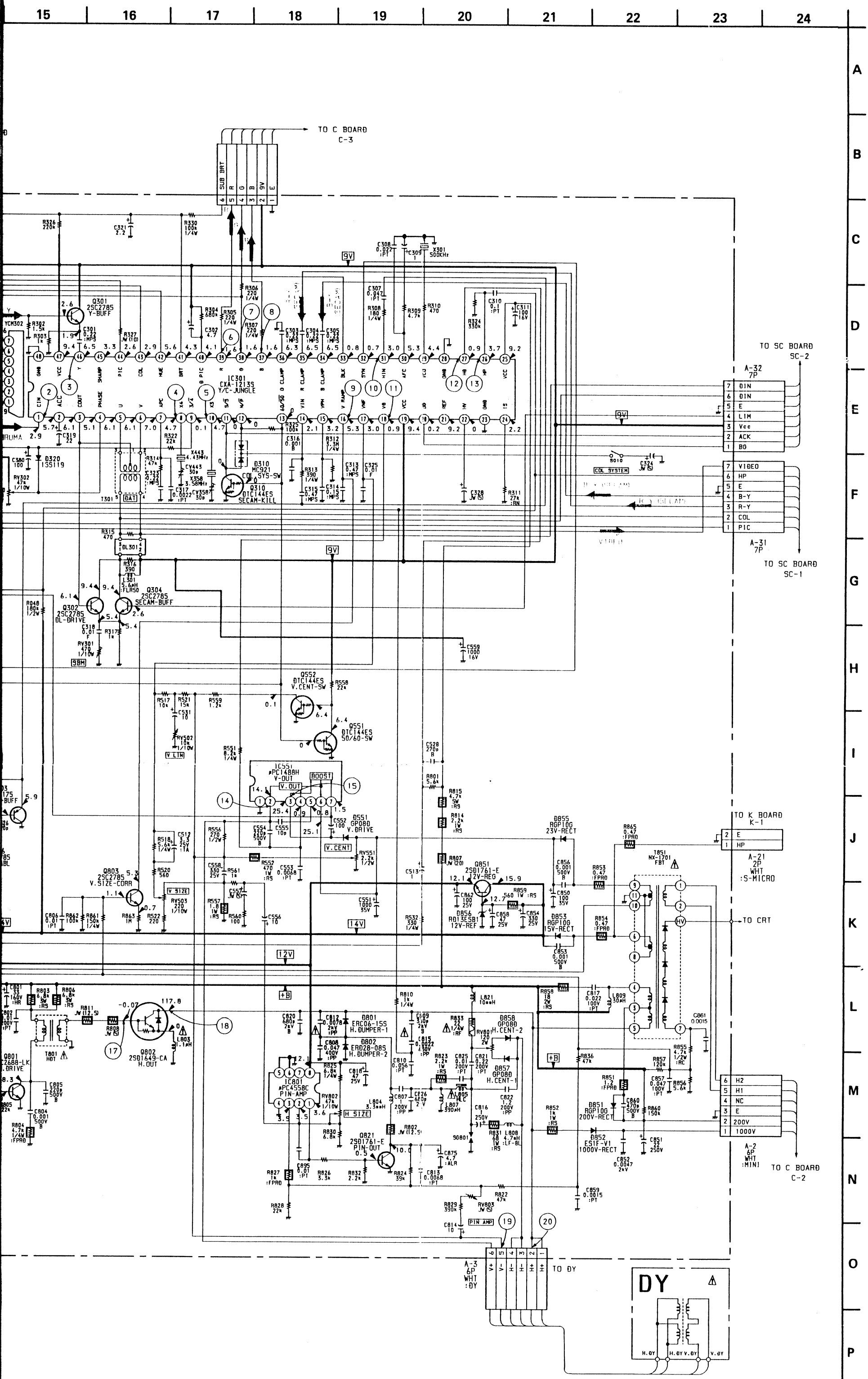
D608 R2M-V1 OVP

IC601 STR50115B PWM-REG

+B

A (Y/C, JUNGULE.H/V DEF
AF-OUT.MEMORY.BAND SW
μ-CONTROLLER.POWER)


TO K BOARD
K-2
A-22
5P
WHT
:S-MICRO
VIDEO IN
AUDIO IN
TO C BOARD
C-3
SUB BRT
VIDEO
AUDIO
12V
9V
14V
IF201
IF0-380A
D201
RD2.0ESB1
DC-STOP
D200
RD6.2ESB2
PROTECT
IC202
LA7016
AUDIO-SW
IC251
T0A2007
AF-OUT
IC203
LA7016
VIDEO-SW
Q201
2SC2785
VIDEO-BUFF
YCM302
YCM301
Q301
2SC2785
Y-BUFF
IC301
CXA-1213S
Y/C-JUNGLE
D320
1SS119
X443
4.43MHz
X358
3.58MHz
T301
DAT
D310
MC921
COL SYS-SW
Q310
DTC144ES
SECAM-KILL
X301
500KHz
DL301
L301
5.6uH
FLR50
Q304
2SC2785
SECAM-BUFF
Q302
2SC2785
DL-DRIVE
RY301
470
1/10W
5BM
Q552
DTC144ES
V.CENT-SW
Q551
DTC144ES
50/60-SW
IC551
uPC1488H
V-OUT
BOOST
V.OUT
V.LIN
V.SIZE
V.CENT
D551
GP08D
V.DRIVE
Q803
2SC2785
V.SIZE-CORR
Q303
2SA1175
VIDEO-BUFF
Q305
2SC2785
PIC-ABL
Q306
2SC2785
BRT-ABL
D864
GP08D
STOPPER
D011
RD3.3ESB1
REF
Q003
2SA1175
SYNC-SW
D010
1SS119
RECT
Q004
DTC114ES
INV
Q007
2SC2785
BUFF
D008
1SS119
HUE-CONT
Q001
2SK669
VC-AMP
Q002
2SC2785
VC-FILTER
IC004
HZT33-02
33V-REG
D606
RGP10G
CLAMP-2
D607
GP08D
CLAMP-3
D608
R2M-V1
OVP
PS801
ICP-N20
IC851
NJM78M09A
9V-REG
Q801
2SC2688-LK
H.DRIVE
T801
HOT
Q802
2SD1649-CA
H.OUT
D860
1SS119
PROTECT
D801
ERC06-15S
H.DUMPER-1
D802
ERD28-08S
H.DUMPER-2
IC801
uPC4558C
PIN-AMP
PIN AMP
Q821
2SD1761-E
PIN-OUT
Q851
2SD1761-E
12V-REG
D856
RD13ESB1
12V-REF
D858
GP08D
H.CENT-2
D857
GP08D
H.CENT-1
L805
HLC
L821
10mH
A-3
6P
WHT
:0Y
V+
V-
H-
H-
H+
H+
TO


15
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22
23
24
A
B
C
D
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I
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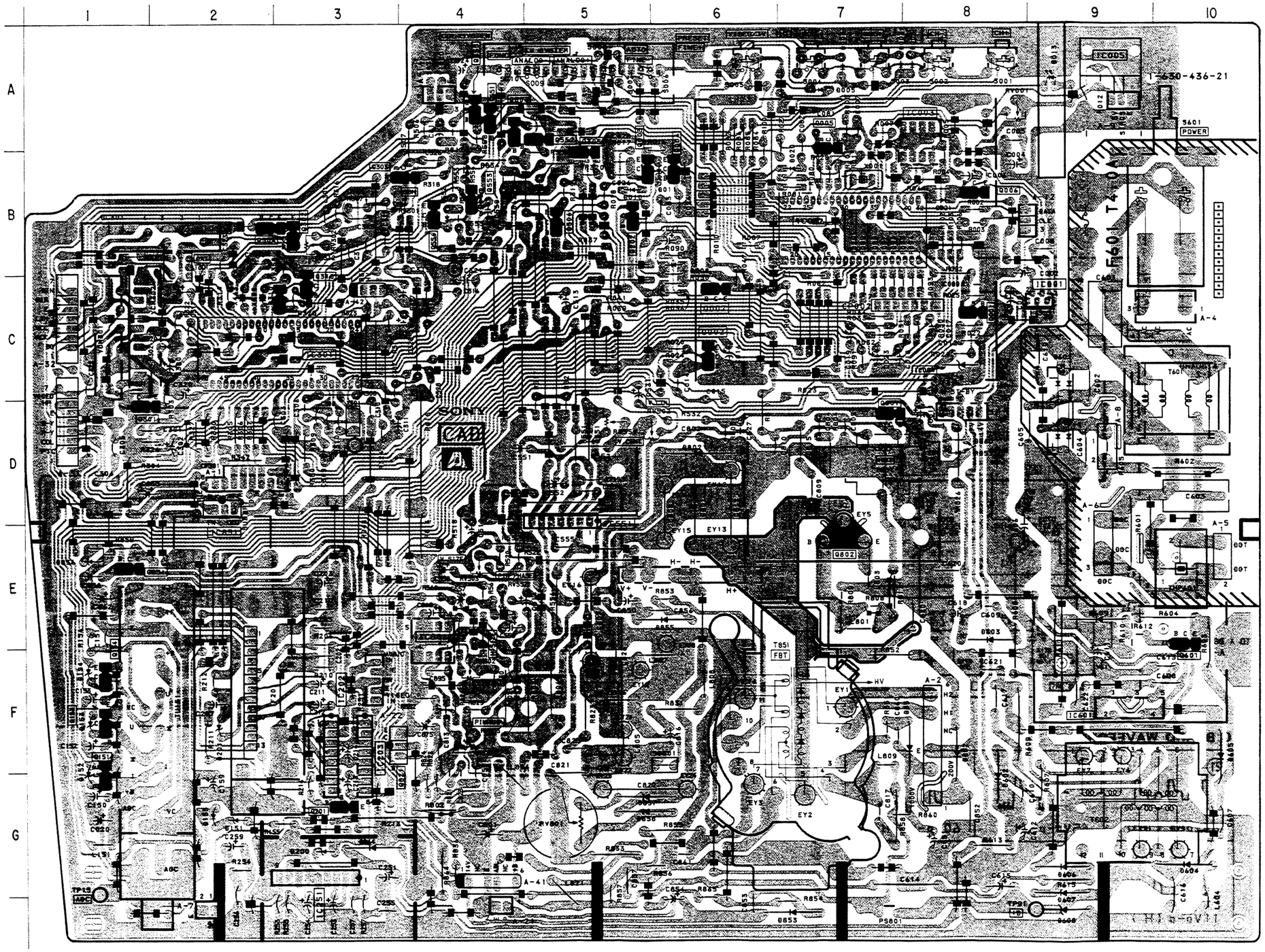
K
L
M
N
O
P
TO C BOARD C-3
SUB BRT
R
G
B
9V
E
9V
C308 0.022 :PT
C309 1
X301 500KHz
R326 220k
C321 2.2
R330 100k 1/4W
R306 220 1/4W
R305 220 1/4W
R307 220 1/4W
R304 680k
C302 4.7
C303 0.22 :MPS
C304 0.22 :MPS
C305 0.22 :MPS
R308 180 1/4W
C307 0.047 :PT
R309 4.7k
R310 470
R324 330k
C310 0.1 :PT
C311 100 16V
Q301 2SC2785 Y-BUFF
Y
YCM302
R302 1.5k
R303 1k
C301 0.22 :MPS
R327 JW (10)
IC301 CXA-1213S Y/C-JUNGLE
GND VCC Y SHARP PIC COL HUE BRT PIC R G B BLK CLAMP R CLAMP B CLAMP BLK SYN HIN AFC VCO GND HB HP VCC
CIN ACC COUT PHASE U V APC X4 3/4 X3 9/5 V/P AD/SD R CLAMP VIN VPH V RAMP VNF VB VCC JB REF HV GND IS
R325 100k
C316 0.001 B
R312 3.3M 1/4W
C313 0.47 :MPS
C325 0.01 F
C328 JW (5)
R311 27k :RN
C319 22
R322 22k
X443 4.43MHz
CV443 30p
X358 3.58MHz
CV358 30p
C317 0.0022 :PT
R314 47k
C323 0.22 :MPS
T301
OAT
Q320 1SS119
C380 100
RV302 47k 1/10W
D310 MC921 COL SYS-SW
Q310 DTC144ES SECAM-KILL
R315 470
DL301
R316 390
L301 5.6uH :FLR50
Q304 2SC2785 SECAM-BUFF
Q302 2SC2785 DL-DRIVE
R048 180k 1/2W
C318 0.01 F
R317 1k
RV301 470 1/10W
SBM
C559 1000 16V
Q552 DTC144ES V.CENT-SW
R558 22k
R517 10k
R521 15k
R559 1.2k
C531 10
RV502 10k 1/10W
V LIN
Q551 DTC144ES 50/60-SW
R551 8.2k 1/4W
C528 270p B
IC551 μPC1488H V-OUT
V.OUT
BOOST
R801 5.6k
R815 4.7k 5W :RS
R814 2.2k 1W :RS
C554 220p 500V B
C555 10p
C552 100
Q551 GP080 V.DRIVE
V.CENT
RV551 2.2k 1/2W
R556 270 1/2W
R557 1.8 1W :RS
C557 JW (5)
R560 100
C556 10
R552 470 :RS
C553 0.0068 :PT
C513 1
R807 JW (20)
Q851 2SD1761-E 2V-REG
R859 560 1W :RS
C862 100 25V
C858 47 25V
D856 RD13ES-B1 12V-REF
C854 330 25V
D855 RGP10G 23V-RECT
C856 0.001 500V B
C850 100 35V
D853 RGP10G 15V-RECT
C853 0.001 500V B
R865 0.47 :FPRO
R853 0.47 :FPRO
R854 0.47 :FPRO
T851 NX-1701 FBT
TO CRT
HV
TO K BOARD K-1
2 E
1 HP
A-21 2P WHT :S-MICRO
TO SC BOARD SC-2
A-32 7P
7 DIN
6 DIN
5 E
4 LIM
3 Vcc
2 ACK
1 BG
9010
COL SYSTEM
C324 JW (5)
7 VIDEO
6 HP
5 E
4 B-Y
3 R-Y
2 COL
1 PIC
A-31 7P
TO SC BOARD SC-1
R532 330 1/4W
14V
12V
R518 5.6k 1/4W
C512 3.3 25V :TA
R520 560
Q803 2SC2785 V.SIZE-CORR
V SIZE
RV503 220 1/10W
C806 0.01 :PT
R862 100k
R861 150k 1/4W
R863 1M
R522 220
+B
C801 33 160V :HR
R803 6.8k 3W :RS
R806 6.8k 3W :RS
R811 JW (12.5)
R808 JW (5)
T801 HOT
Q801 2SC2688-LK H.DRIVE
C805 220p 500V B
C804 0.001 500V B
R804 4.7k 1/4W :FPRO
Q802 2SD1649-CA H.OUT
L803 1.1uH
C820 680p 2kV B
C812 0.0078 2kV :PP
C806 0.047 400V :PP
D801 ERC06-15S H.DUMPER-1
D802 ERD28-08S H.DUMPER-2
R810 1k 1/4W
C809 5.0p 2kV B
C815 0.0022 630V :PP
R833 22 1/4W :RF
L821 10mH
D858 GP080 H.CENT-2
RV801 120 2W
C810 0.056 :PT
R823 2.2k 1W :RS
C825 0.01 200V :PT
C821 0.22 200V :PT
D857 GP080 H.CENT-1
R825 6.8k 1/4W
C818 47 25V
IC801 μPC4558C PIN-AMP
RV802 47k 1/10W
H SIZE
L804 3.3mH
C807 1 200V :PP
C826 680p 2kV
L805 HLC
L807 390uH
C816 1 250V
C822 2.2 200V :PP
R831 68 1W :LF-BL
L808 4.7mH :RS
SG801
R830 6.8k
R802 JW (12.5)
Q821 2SD1761-E PIN-OUT
C875 4.7 :ALR
R827 1k :FPRO
R826 3.3k
R832 2.2k
R824 39k
C813 0.0068 :PT
C895 0.01 :PT
R828 22k
R822 47k
R829 390k
RV603 JW (5)
C814 10
PIN AMP
R858 18 2W :RS
C817 0.022 100V :PT
L809 30mH
C861 0.0015
R836 47k
R855 4.7k 1/2W :RC
R857 120k
C857 0.047 100V :PT
R856 5.6k
R851 1.2 :FPRO
D851 RGP10G 200V-RECT
C860 470p 500V B
R860 150k
D852 ES1F-V1 1000V-RECT
C852 0.0047 2kV
C851 22 250V
R852 1k 1W :RS
C859 0.0015 :PT
6 H2
5 H1
4 NC
3 E
2 200V
1 1000V
A-2 6P WHT :MINI
TO C BOARD C-2
A-3 6P WHT :DY
V+ V- H- H- H+ H+
TO DY
DY
H.DY
H.DY V.DY
V.DY

KV-1984MT RM-687C	KV-1984MT RM-687C
[Y/C, JUNGLE, H/V DEF AF-OUT, MEMORY, BAND SW μ-CONTROLLER, POWER] A	A

5-3. PRINTED WIRING BOARD (1)
–CONDUCTOR SIDE–



IC

IC001	C-9
IC002	B-7
IC003	A-8
IC004	C-8
IC005	A-9
IC202	F-3
IC203	F-3
IC251	G-3
IC301	C-3
IC551	D-5
IC601	F-9
IC801	E-4
IC851	D-2

TRANSISTOR

Q001	C-8
Q002	C-7
Q003	B-5
Q004	B-6
Q005	A-7
Q006	B-8
Q007	C-6
Q151	F-1
Q153	F-1
Q154	F-1
Q201	G-3
Q202	B-5
Q301	D-1
Q302	B-3
Q303	B-4
Q304	B-2
Q305	A-5
Q306	B-5
Q31Q	C-3
Q551	A-4
Q552	A-5
Q801	D-7
Q802	E-7
Q803	A-4
Q821	F-3
Q851	E-1

DIODE

D008	B-6
D010	B-5
D011	B-6
D013	A-9
D020	B-7
D021	B-8
D151	F-2
D152	F-1
D153	F-1
D154	F-1
D155	F-2
D200	G-3
D201	F-2
D310	C-3
D320	C-2
D551	D-5
D601	C-9
D602	G-8
D604	G-10
D605	F-10
D606	G-9
D607	G-9
D608	G-9
D801	D-6
D802	D-6
D851	F-8
D852	F-8
D853	G-7
D855	E-6
D856	E-1
D857	G-5
D858	G-5
D860	D-8
D864	G-3

VARIABLE RESISTOR

RV001	A-8
RV301	B-4
RV302	B-3
RV502	D-6
RV503	E-4
RV551	D-5
RV801	G-5
RV802	F-4

DELAY LINE

DL301	B-1

IF BLOCK

IF201	F-2

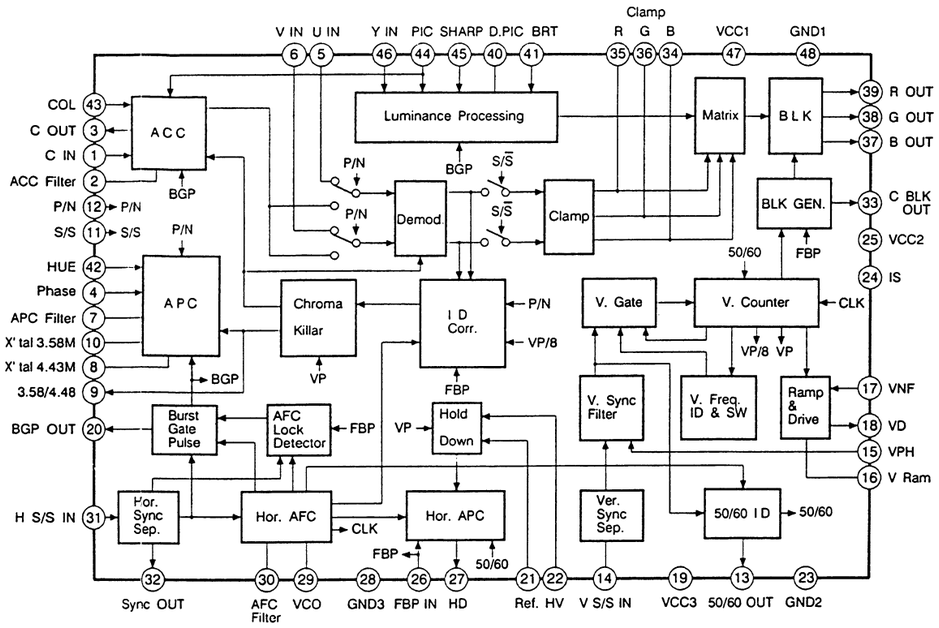
TUNER

TU151	F-2

CRYSTAL

X001	B-7
X301	D-3
X358	C-2
X443	C-2

• **A BOARD IC301 CXA1213S**



NOTE:
The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.

KV-1984MT
RM-687C

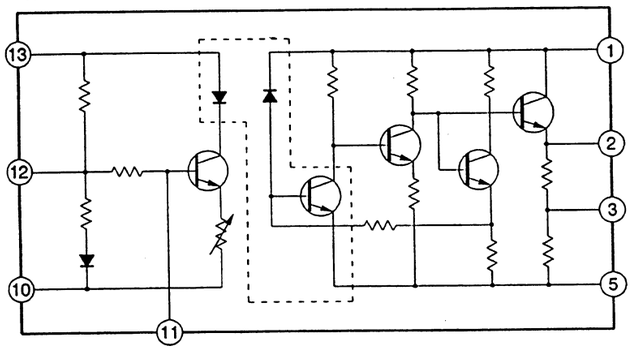
KV-1984MT
RM-687C

SCHEMATIC DIAGRAM (2)

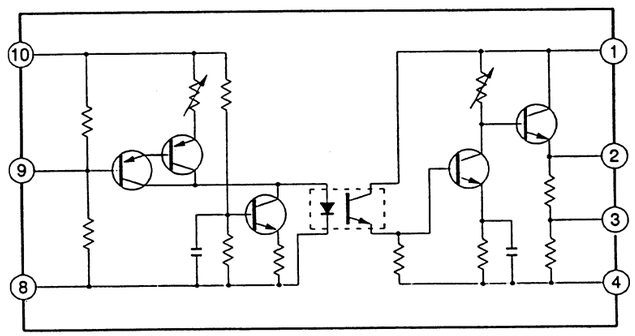
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

A B C D E F G H I J

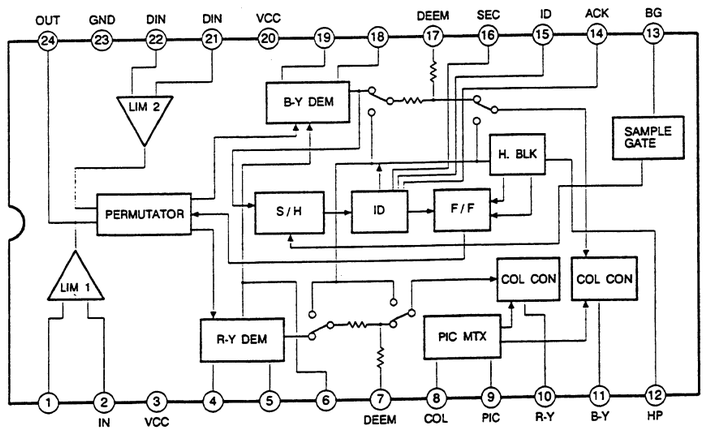
• K BOARD AVM-1 IVM-2

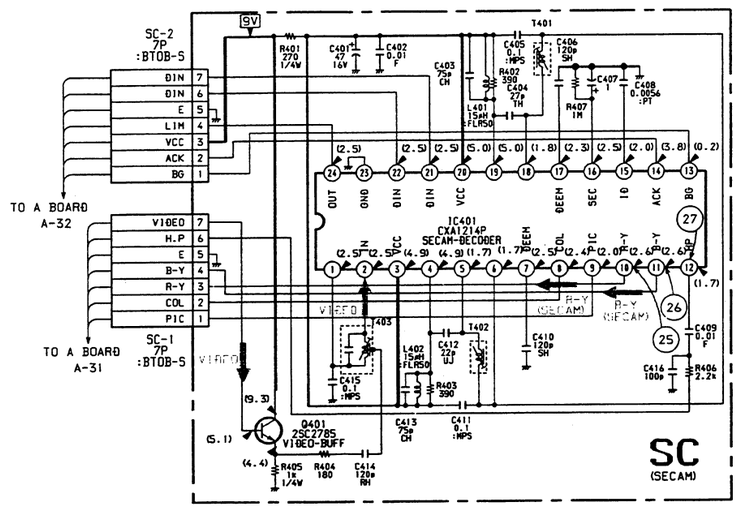


• K BOARD AVM-2 IVM-1



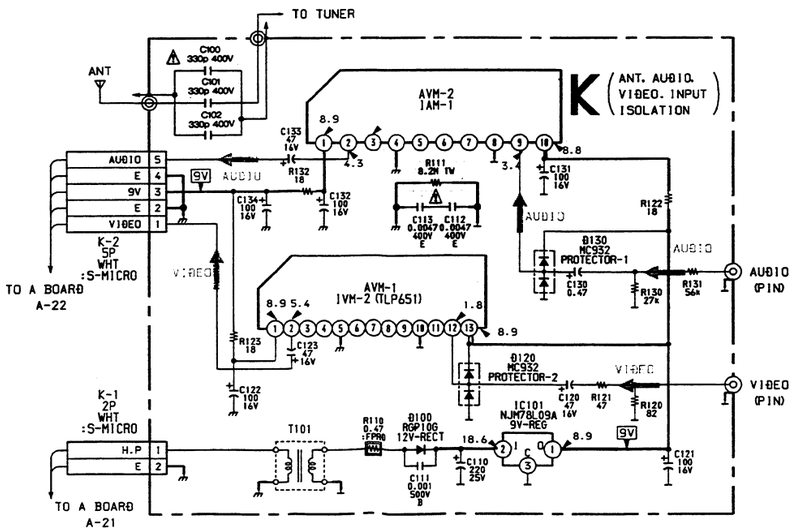
• SC BOARD IC401 CXA1214P

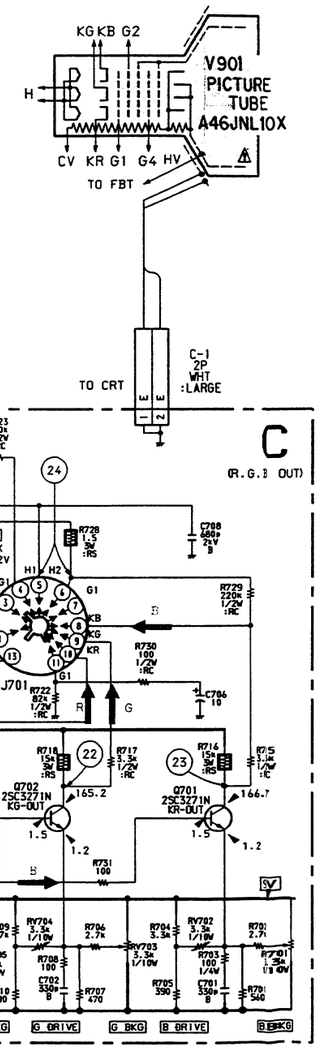




SC BOARD WAVEFORM

(25)	(26)	(27)
(SECAM) 0.24Vp-p (H)	(SECAM) 0.3Vp-p (H)	(SECAM) 4.3Vp-p (H)





C BOARD WAVEFORM

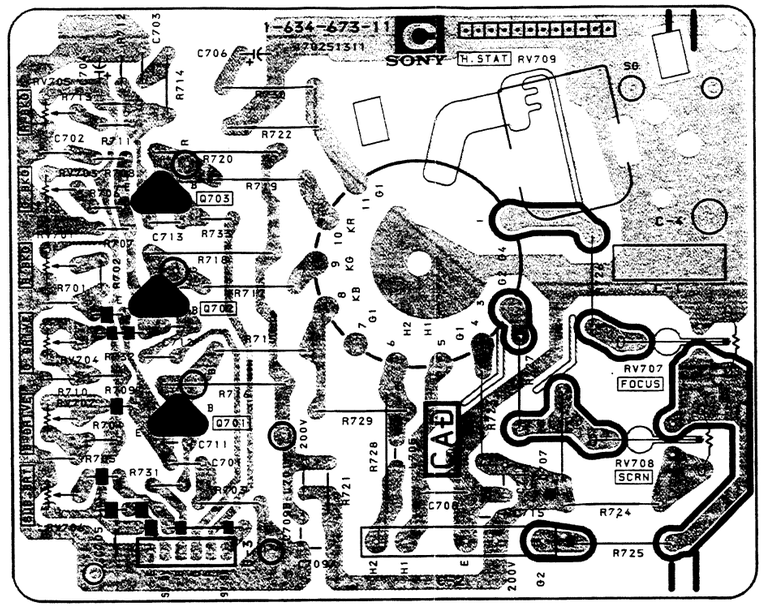
(21)	(22)	(23)
68Vp-p (H)	65Vp-p (H)	60Vp-p (H)
(24)		
11Vp-p (H)		

PRINTED WIRING BOARD (2)

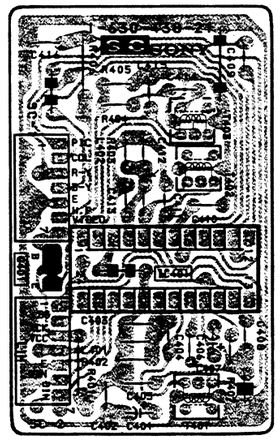
–CONDUCTOR SIDE–

C [R・G・B OUT] **SC** [SECAM] **K** [ANT, AUDIO / VIDEO INPUT]

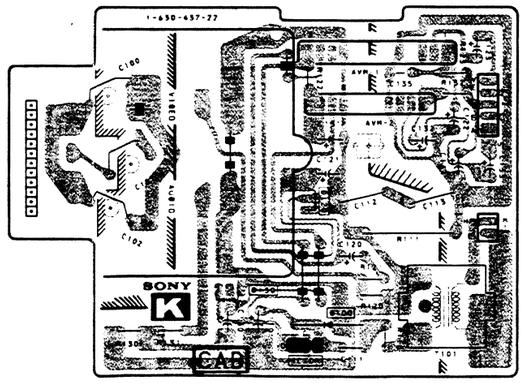
–C BOARD–



–SC BOARD–

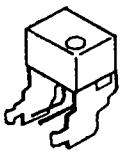


–K BOARD–

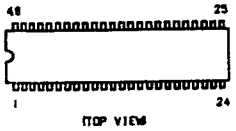


5-4. SEMICONDUCTORS

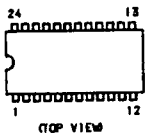
BX-1398
KEY-C00SV



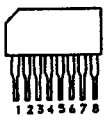
CXA1213S



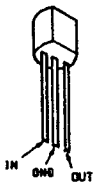
CXA1214P



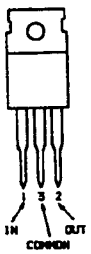
LA7016



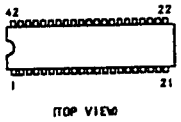
NJM78L09A



NJM78M09A

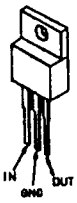


PCA84C640P/016

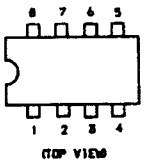


L78LR05Đ-MA

RC78M09FA

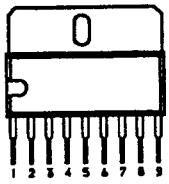


ST24C02CP
μPC4558C

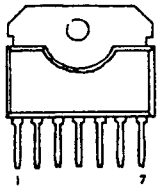


STR50115B

TĐA2007



μPC1448H

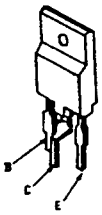


DTA114ES
DTC114ES
DTC124ES
DTC144ES

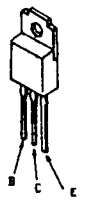
2SA1175-HFE
2SC2785-HFE

2SC2688-LK
2SC3271-N

2SĐ1649-CA

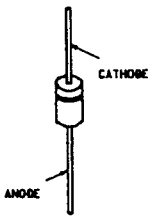


2SĐ1761-E

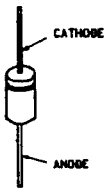


2SK669

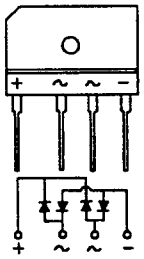
ERC06-15S
RU-3AM
R2M
HZT33-02TA



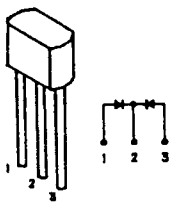
ES1F
GP08DPKG23
GPR10G
RGP15J
U05G



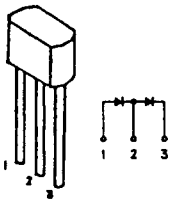
KBU4JL-6088



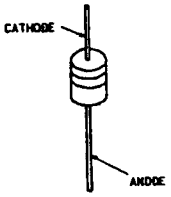
MC921



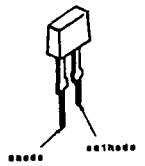
MC931



RD2.0ES-B1
RD5.1ES-B2
RD6.2ES-B2
RD6.8ES-B1
RD13ES-B1
1S119



SEL1222R-C, Đ

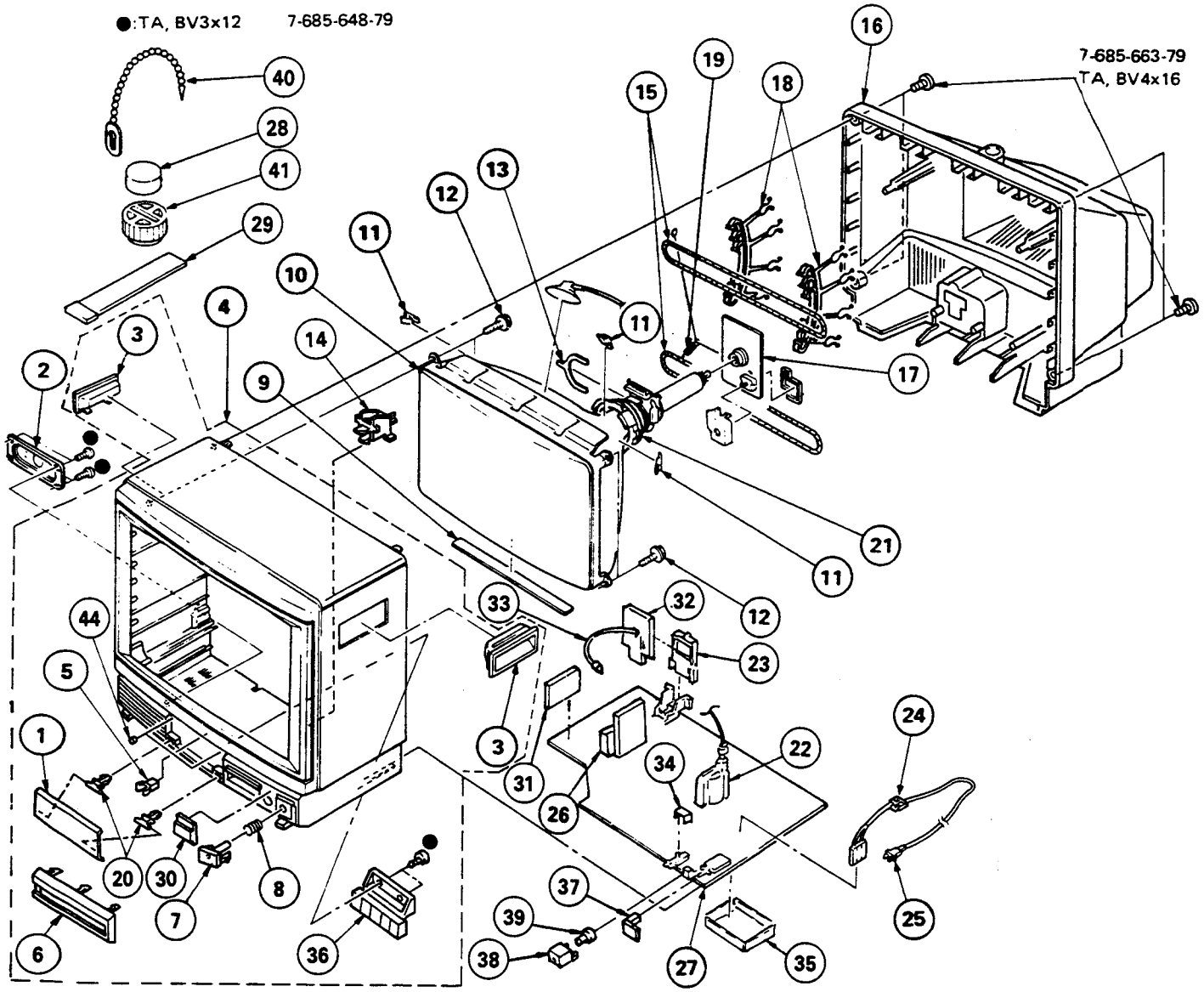


SECTION 6

EXPLODED VIEW

NOTE:
- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.



REF.NO.	PART NO.	DESCRIPTION	REMARK
1	X-4380-066-1	DOOR ASSY, CONTROL	
2	1-544-190-11	SPEAKER	
3	4-313-702-91	HANDLE	
4	X-4380-067-1	BEZEL ASSY	1,3,5-8,20,30,36,44
5	4-386-710-01	CATCHER, PUSH	
6	4-397-459-01	PANEL, CONTROL	
7	4-397-456-01	BUTTON, POWER	
8	4-329-112-00	SPRING, COMPRESSION	
9	4-372-556-11	SHEET, BLOTTING	
10	⚠.8-737-951-05	PICTURE TUBE (A46JNL10X)	
11	3-703-961-01	SPACER, DY	
12	4-307-249-00	SCREW (5), TAPPING	
13	1-452-277-00	MAGNET, BMC	
14	*4-397-451-01	HOLDER, PC BOARD	
15	⚠.1-426-307-11	COIL, DEMAGNETIZATION	
16	4-397-460-01	COVER, REAR	
17	*A-1330-984-A	C BOARD, COMPLETE	
18	*4-341-778-01	BAND, DEGAUSSING COIL	
19	4-369-318-00	SPRING, TENSION	
20	3-662-365-00	SHAFT (S), DOOR	
21	⚠.1-451-279-21	DEFLECTION YOKE (Y19PXA)	
22	⚠.1-439-424-11	TRANSFORMER ASSY, FLYBACK (NX-1700L)	
23	⚠.1-417-149-11	MIXER, U/V	
24	⚠.4-389-778-01	HOLDER, AC CORD	
25	⚠.1-574-062-22	CORD, POWER (WITH CONNECTOR)	
26	⚠.1-465-216-11	TUNER, ET (BT-EG201)	
27	*A-1296-736-A	A BOARD, COMPLETE	31
28	1-452-032-00	MAGNET, DISK; 10MM ϕ	
29	X-4309-608-0	PERMALLOY ASSY, CONVERGENCE	
30	4-397-455-01	WINDOW, ORNAMENTAL	
31	*1-630-438-11	SC BOARD	
32	*1-630-437-11	K BOARD	
33	*1-575-691-11	CABLE, PIN	
34	*4-387-054-01	COVER, LED HOLDER	
35	*4-394-974-01	CASE (BOTTOM LID), SHIELD	
36	4-397-458-01	BUTTON, MULTI	
37	4-394-972-01	CAP, POWER	
38	*4-387-889-01	BRACKET (B), LIGHT GUIDE	
39	*4-387-890-01	GUIDE, LIGHT	
40	4-308-870-00	CLIP, LEAD WIRE	
41	1-452-094-00	MAGNET, ROTATABLE DISK; 15MM ϕ	
44	3-831-441-99	SPACER (B)	

A

SECTION 7
ELECTRICAL PARTS LIST

NOTE:

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

When indicating parts by reference number, please include the board name.

CAPACITORS
- MF : μF, PF : μμF

COILS
- MMH : mH, UH : μH

RESISTORS
- All resistors are in ohms
- F : nonflammable

REF.NO.	PART NO.	DESCRIPTION			REMARK
	*A-1296-736-A	A BOARD, COMPLETE			
		**********			
	*1-508-765-00	PIN, CONNECTOR (5MM PITCH) 3P			
	*1-508-768-00	PIN, CONNECTOR (5MM PITCH) 6P			
	*1-564-505-11	PLUG, CONNECTOR 2P			
	*1-564-508-11	PLUG, CONNECTOR 5P			
	*1-564-509-11	PLUG, CONNECTOR 6P			
	*1-565-395-11	PIN, CONNECTOR 3P			
	*1-565-498-11	CONNECTOR, BOARD TO BOARD 7P			
	*1-568-536-11	PLUG (MINIATURE DY) 6P			
	*4-341-751-01	EYELET (EY6,EY7,EY9,EY11,EY12,EY13,EY14, EY15,EY16,EY17,EY18,EY19,EY21,EY22,EY23, EY24)			
	*4-341-752-01	EYELET (EY1,EY2,EY3,EY4,EY5)			
		<CAPACITOR>			
C001	1-123-875-11	ELECT	10MF	20%	50V
C002	1-124-925-11	ELECT	2.2MF	20%	50V
C004	1-126-101-11	ELECT	100MF	20%	16V
C005	1-130-495-00	MYLAR	0.1MF	5%	50V
C006	1-124-925-11	ELECT	2.2MF	20%	50V
C007	1-102-963-00	CERAMIC	33PF	5%	50V
C008	1-130-483-00	MYLAR	0.01MF	5%	50V
C011	1-123-875-11	ELECT	10MF	20%	50V
C012	1-130-495-00	MYLAR	0.1MF	5%	50V
C014	1-130-493-00	MYLAR	0.068MF	5%	50V
C015	1-130-493-00	MYLAR	0.068MF	5%	50V
C016	1-123-875-11	ELECT	10MF	20%	50V
C017	1-123-875-11	ELECT	10MF	20%	50V
C018	1-123-875-11	ELECT	10MF	20%	50V
C019	1-123-875-11	ELECT	10MF	20%	50V
C020	1-126-101-11	ELECT	100MF	20%	16V
C021	1-124-791-11	ELECT	1MF	20%	50V
C023	1-123-875-11	ELECT	10MF	20%	50V
C024	1-136-169-00	FILM	0.22MF	5%	50V
C026	1-130-495-00	MYLAR	0.1MF	5%	50V
C028	1-102-110-00	CERAMIC	220PF	10%	50V
C082	1-102-125-00	CERAMIC	0.0047MF	10%	50V
C083	1-101-880-00	CERAMIC	47PF	10%	50V
C150	1-124-791-11	ELECT	1MF	20%	50V
C151	1-130-491-00	MYLAR	0.047MF	5%	50V
C152	1-124-791-11	ELECT	1MF	20%	50V
C153	1-124-791-11	ELECT	1MF	20%	50V
C159	1-123-875-11	ELECT	10MF	20%	50V
C202	1-136-173-00	FILM	0.47MF	5%	50V
C203	1-124-360-00	ELECT	1000MF	20%	16V
C207	1-124-925-11	ELECT	2.2MF	20%	50V
C210	1-102-125-00	CERAMIC	0.0047MF	10%	50V
C211	1-124-927-11	ELECT	4.7MF	20%	50V
C212	1-124-927-11	ELECT	4.7MF	20%	50V
C213	1-124-477-11	ELECT	47MF	20%	16V
C214	1-124-791-11	ELECT	1MF	20%	50V
C251	1-124-557-11	ELECT	1000MF	20%	25V
C253	1-126-233-11	ELECT	22MF	20%	50V
C254	1-124-120-11	ELECT	220MF	20%	16V
C255	1-130-483-00	MYLAR	0.01MF	5%	50V
C256	1-130-495-00	MYLAR	0.1MF	5%	50V
C257	1-130-475-00	MYLAR	0.0022MF	5%	50V
C259	1-126-103-11	ELECT	470MF	20%	16V
C266	1-124-791-11	ELECT	1MF	20%	50V
C301	1-136-169-00	FILM	0.22MF	5%	50V
C302	1-124-927-11	ELECT	4.7MF	20%	50V
C303	1-136-169-00	FILM	0.22MF	5%	50V
C304	1-136-169-00	FILM	0.22MF	5%	50V
C305	1-136-169-00	FILM	0.22MF	5%	50V
C307	1-130-491-00	MYLAR	0.047MF	5%	50V
C308	1-130-487-00	MYLAR	0.022MF	5%	50V
C309	1-124-791-11	ELECT	1MF	20%	50V
C310	1-130-495-00	MYLAR	0.1MF	5%	50V
C311	1-126-101-11	ELECT	100MF	20%	16V
C313	1-136-173-00	FILM	0.47MF	5%	50V
C314	1-136-167-00	FILM	0.15MF	5%	50V
C315	1-136-173-00	FILM	0.47MF	5%	50V
C316	1-102-074-00	CERAMIC	0.001MF	10%	50V
C317	1-130-475-00	MYLAR	0.0022MF	5%	50V
C318	1-106-367-00	MYLAR	0.01MF	10%	200V
C319	1-126-233-11	ELECT	22MF	20%	50V
C320	1-124-119-00	ELECT	330MF	20%	16V
C321	1-124-925-11	ELECT	2.2MF	20%	50V
C322	1-102-824-00	CERAMIC	470PF	5%	50V
C323	1-136-169-00	FILM	0.22MF	5%	50V
C325	1-101-004-00	CERAMIC	0.01MF		50V
C326	1-102-978-00	CERAMIC	220PF	5%	50V
C380	1-124-122-11	ELECT	100MF	20%	50V
C512	1-131-350-00	TANTALUM	3.3MF	10%	25V
C513	1-124-791-11	ELECT	1MF	20%	50V
C528	1-102-111-00	CERAMIC	270PF	10%	50V
C531	1-123-875-11	ELECT	10MF	20%	50V
C551	1-126-105-11	ELECT	1000MF	20%	35V
C552	1-124-122-11	ELECT	100MF	20%	50V
C553	1-130-481-00	MYLAR	0.0068MF	5%	50V
C554	1-102-244-00	CERAMIC	220PF	10%	500V
C555	1-102-947-00	CERAMIC	10PF	0.5PF	50V
C556	1-123-875-11	ELECT	10MF	20%	50V
C558	1-124-479-11	ELECT	330MF	20%	25V
C559	1-124-360-00	ELECT	1000MF	20%	16V
C601 ⚠	1-136-548-13	FILM	0.1MF	20%	250V
C602 ⚠	1-161-830-51	CERAMIC	0.0047MF		500V
C603 ⚠	1-136-548-13	FILM	0.1MF	20%	250V
C604 ⚠	1-161-830-51	CERAMIC	0.0047MF		500V
C605 ⚠	1-161-830-51	CERAMIC	0.0047MF		500V

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

REF.NO.	PART NO.	DESCRIPTION			REMARK
C606	1-125-555-11	ELECT	330MF	20%	400V
C607	1-106-218-00	MYLAR	0.082MF	10%	100V
C608	1-162-134-11	CERAMIC	470PF	10%	2KV
C610	1-162-318-11	CERAMIC	0.001MF	10%	500V
C612	1-124-480-11	ELECT	470MF	20%	25V
C613	1-102-820-00	CERAMIC	330PF	5%	50V
C614	1-136-109-00	FILM	0.68MF	5%	200V
C615	1-123-024-21	ELECT	33MF		160V
C616	1-162-134-11	CERAMIC	470PF	10%	2KV
C617	1-136-170-00	FILM	0.27MF	5%	50V
C619 ⚠	1-161-830-51	CERAMIC	0.0047MF		500V
C666	1-162-135-11	CERAMIC	560PF	10%	2KV
C667	1-162-134-11	CERAMIC	470PF	10%	2KV
C801	1-123-024-21	ELECT	33MF		160V
C802	1-106-367-00	MYLAR	0.01MF	10%	200V
C804	1-162-318-11	CERAMIC	0.001MF	10%	500V
C805	1-102-244-00	CERAMIC	220PF	10%	500V
C806	1-130-483-00	MYLAR	0.01MF	5%	50V
C807	1-136-111-00	FILM	1MF	5%	200V
C808 ⚠	1-136-313-51	ELEC	0.047MF	5%	400V
C809 ⚠	1-162-115-51	CERAMIC	330PF	10%	2KV
C810	1-130-492-11	MYLAR	0.056MF	5%	50V
C812 ⚠	1-136-545-11	FILM	0.0068MF	5%	2KV
C813	1-130-481-00	MYLAR	0.0068MF	5%	50V
C814	1-123-875-11	ELECT	10MF	20%	50V
C815 ⚠	1-129-898-51	FILM	0.0022MF	5%	630V
C816	1-124-634-11	ELECT	1MF	20%	250V
C817	1-106-375-12	MYLAR	0.022MF	10%	100V
C818	1-124-477-11	ELECT	47MF	20%	25V
C820	1-162-116-00	CERAMIC	680PF	10%	2KV
C821	1-106-399-00	MYLAR	0.22MF	10%	200V
C822	1-136-569-11	FILM	1.2MF	5%	200V
C825	1-106-367-00	MYLAR	0.01MF	10%	200V
C826	1-162-116-00	CERAMIC	680PF	10%	2KV
C850	1-124-122-11	ELECT	100MF	20%	35V
C851	1-123-948-00	ELECT	22MF	20%	250V
C852	1-162-114-00	CERAMIC	0.0047MF		2KV
C853	1-162-318-11	CERAMIC	0.001MF	10%	500V
C854	1-124-479-11	ELECT	330MF	20%	25V
C855	1-124-360-00	ELECT	1000MF	20%	16V
C856	1-162-318-11	CERAMIC	0.001MF	10%	500V
C857	1-106-383-00	MYLAR	0.047MF	10%	100V
C858	1-124-477-11	ELECT	47MF	20%	25V
C859	1-130-473-00	MYLAR	0.0015MF	5%	50V
C860	1-102-228-00	CERAMIC	470PF	10%	500V
C861	1-106-347-00	MYLAR	0.0015MF	10%	100V
C862	1-124-478-11	ELECT	100MF	20%	25V
C875	1-124-045-00	ELECT	4.7MF	20%	50V
C895	1-130-483-00	MYLAR	0.01MF	5%	50V
		<COMPOSITION CIRCUIT BLOCK>			
CP002	1-233-153-11	COMPOSITION CIRCUIT BLOCK			
CP301	1-236-525-11	NETWORK, C			
		<TRIMMER>			
CV358	1-141-245-00	TRIMMER, CERAMIC			
CV443	1-141-245-00	TRIMMER, CERAMIC			
		<DIODE>			
D008	8-719-911-19	DIODE 1SS119			
D010	8-719-911-19	DIODE 1SS119			

REF.NO.	PART NO.	DESCRIPTION	REMARK
D011	8-719-109-66	DIODE RD3.3ES-B2	
D013	8-719-311-89	DIODE SEL1222R-C	
	*4-387-028-01	HOLDER, LED; D013	
D020	8-719-911-19	DIODE 1SS119	
D021	8-719-911-19	DIODE 1SS119	
D151	8-719-109-85	DIODE RD5.1ES-B2	
D152	8-719-109-98	DIODE RD6.8ES-B3	
D153	8-719-109-98	DIODE RD6.8ES-B3	
D154	8-719-109-98	DIODE RD6.8ES-B3	
D155	8-719-911-19	DIODE 1SS119	
D200	8-719-109-93	DIODE RD6.2ES-B2	
D201	8-719-109-50	DIODE RD2.0ES-B1	
D310	8-719-000-06	DIODE MC921	
D320	8-719-911-19	DIODE 1SS119	
D551	8-719-911-55	DIODE U05G	
D601 ⚠	8-719-946-90	DIODE RBV[illegible]	
D602	8-719-300-33	DIODE RU-3AM	
D604	8-719-979-85	DIODE EGP20G	
D605	8-719-300-33	DIODE RU-3AM	
D606	8-719-300-33	DIODE RU-3AM	
D607	8-719-911-55	DIODE U05G	
D608	8-719-303-49	DIODE R2M	
D801	8-719-945-80	DIODE ERC06-15S	
D802	8-719-928-08	DIODE ERD28-08S	
D851	8-719-300-33	DIODE RU-3AM	
D852	8-719-300-65	DIODE ES1F	
D853	8-719-300-33	DIODE RU-3AM	
D855	8-719-300-33	DIODE RU-3AM	
D856	8-719-110-35	DIODE RD13ES-B1	
D857	8-719-911-55	DIODE U05G	
D858	8-719-911-55	DIODE U05G	
D860	8-719-911-19	DIODE 1SS119	
D864	8-719-911-55	DIODE U05G	
		<DELAY LINE>	
DL301	1-415-122-31	DELAY LINE, 1H (PAL)	
		<FUSE>	
F601 ⚠	1-532-350-11	FUSE, TIME-LAG 4A/250V	
	*1-533-189-11	HOLDER, FUSE; F601	
		<IC>	
IC004 ⚠	8-759-805-37	IC L78LR05D-MA	
IC002	8-759-984-26	IC PCA84C640P-016	
IC003	8-759-988-32	IC ST24C02CP	
IC006 ⚠	8-759-300-42	IC MZT33-02	
IC005	8-749-920-65	IC KEY-C00SV	
IC202	8-759-800-81	IC LA7016	
IC203	8-759-800-81	IC LA7016	
IC251	8-759-985-06	IC TDA2007	
IC301	8-752-036-21	IC CXA1213S	
IC551	8-759-113-05	IC UPC1488H	
IC601 ⚠	8-749-901-40	IC STR50115B	
	4-377-115-01	SPACER (A), MICA; IC601	
	4-394-984-01	SPRING; IC601	
IC801	8-759-945-58	IC RC4558P	
IC851	8-759-982-34	IC RC78M09FA	
		<IF BLOCK>	
IF201	1-466-138-11	IF BLOCK (IFD-380A)	

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

REF.NO.	PART NO.	DESCRIPTION	REMARK
		<COIL>	
L151	1-410-470-11	INDUCTOR 10UH	
L301	1-408-406-00	INDUCTOR 5.6UH	
L604	1-410-397-21	FERRITE BEAD INDUCTOR	
L803⚠	1-410-397-31	FERRITE BEAD INDUCTOR	
L804	1-459-075-00	COIL,DYNAMIC CONVERSION CHOKE	
L805⚠	1-459-760-13	COIL, HORIZONTAL LINEARITY	
L807	1-459-390-00	COIL (WITH CORE)	
L808	1-408-239-00	INDUCTOR 4.7MMH	
L809	1-459-407-00	COIL, FERRITE CHOKE	
L821	1-459-104-00	COIL, DUST CORE	
		<IC LINK>	
PS801⚠	1-532-679-91	LINK, IC (ICP-N15) 0.6A	
		<TRANSISTOR>	
Q001	8-729-808-36	TRANSISTOR 2SK669	
Q002	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q003	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q004	8-729-900-80	TRANSISTOR DTC114ES	
Q005	8-729-900-36	TRANSISTOR DTC124ES	
Q006	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q007	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q151	8-729-900-61	TRANSISTOR DTA114ES	
Q153	8-729-900-61	TRANSISTOR DTA114ES	
Q154	8-729-900-61	TRANSISTOR DTA114ES	
Q201	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q202	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q301	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q302	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q303	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q304	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q305	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q306	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q310	8-729-900-89	TRANSISTOR DTC144ES	
Q551	8-729-900-89	TRANSISTOR DTC144ES	
Q552	8-729-900-89	TRANSISTOR DTC144ES	
Q801	8-729-119-80	TRANSISTOR 2SC2688-LK	
Q802	8-729-802-50	TRANSISTOR 2SD1649-CA	
	4-394-984-01	SPRING; Q802	
Q803	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q821	8-729-107-26	TRANSISTOR 2SD1585-K	
Q851	8-729-107-26	TRANSISTOR 2SD1585-K	
		<RESISTOR>	
R004	1-249-425-11	CARBON 4.7K 5% 1/4W	
R005	1-249-425-11	CARBON 4.7K 5% 1/4W	
R006	1-249-417-11	CARBON 1K 5% 1/4W	
R007	1-249-417-11	CARBON 1K 5% 1/4W	
R008	1-249-427-11	CARBON 6.8K 5% 1/4W	
R010	1-247-717-11	CARBON 2.2K 5% 1/4W	
R011	1-249-469-11	CARBON 100K 5% 1/4W	
R013	1-249-433-11	CARBON 22K 5% 1/4W	
R016	1-249-421-11	CARBON 2.2K 5% 1/4W	
R017	1-249-441-11	CARBON 100K 5% 1/4W	
R018	1-249-427-11	CARBON 6.8K 5% 1/4W	
R020	1-249-420-11	CARBON 1.8K 5% 1/4W	
R021	1-249-433-11	CARBON 22K 5% 1/4W	
R022	1-249-433-11	CARBON 22K 5% 1/4W	
R023	1-249-462-11	CARBON 22K 5% 1/4W	
R024	1-247-891-00	CARBON 330K 5% 1/4W	
R025	1-249-429-11	CARBON 10K 5% 1/4W	
R026	1-216-464-11	METAL OXIDE 18K 5% 2W	F
R027	1-249-441-11	CARBON 100K 5% 1/4W	
R028	1-249-433-11	CARBON 22K 5% 1/4W	
R029	1-249-417-11	CARBON 1K 5% 1/4W	
R030	1-249-423-11	CARBON 3.3K 5% 1/4W	
R031	1-247-883-00	CARBON 150K 5% 1/4W	
R032	1-249-429-11	CARBON 10K 5% 1/4W	
R033	1-249-437-11	CARBON 47K 5% 1/4W	
R034	1-249-423-11	CARBON 3.3K 5% 1/4W	
R035	1-249-431-11	CARBON 15K 5% 1/4W	
R036	1-249-433-11	CARBON 22K 5% 1/4W	
R037	1-247-887-00	CARBON 220K 5% 1/4W	
R038	1-249-429-11	CARBON 10K 5% 1/4W	
R039	1-247-887-00	CARBON 220K 5% 1/4W	
R044	1-247-883-00	CARBON 150K 5% 1/4W	
R047	1-249-433-11	CARBON 22K 5% 1/4W	
R048	1-214-919-00	CARBON 180K 5% 1/2W	
R051	1-249-417-11	CARBON 1K 5% 1/4W	
R080	1-249-425-11	CARBON 4.7K 5% 1/4W	
R081	1-249-417-11	CARBON 1K 5% 1/4W	
R082	1-249-417-11	CARBON 1K 5% 1/4W	
R083	1-247-713-11	CARBON 1K 5% 1/4W	
R084	1-247-713-11	CARBON 1K 5% 1/4W	
R085	1-247-713-11	CARBON 1K 5% 1/4W	
R086	1-247-713-11	CARBON 1K 5% 1/4W	
R087	1-249-417-11	CARBON 1K 5% 1/4W	
R088	1-249-441-11	CARBON 100K 5% 1/4W	
R090	1-249-431-11	CARBON 15K 5% 1/4W	
R091	1-249-417-11	CARBON 1K 5% 1/4W	
R092	1-247-717-11	CARBON 2.2K 5% 1/4W	
R093	1-249-421-11	CARBON 2.2K 5% 1/4W	
R094	1-249-421-11	CARBON 2.2K 5% 1/4W	
R095	1-249-421-11	CARBON 2.2K 5% 1/4W	
R096	1-249-421-11	CARBON 2.2K 5% 1/4W	
R097	1-249-421-11	CARBON 2.2K 5% 1/4W	
R098	1-249-421-11	CARBON 2.2K 5% 1/4W	
R099	1-249-421-11	CARBON 2.2K 5% 1/4W	
R100	1-249-410-11	CARBON 270 5% 1/4W	
R101	1-249-421-11	CARBON 2.2K 5% 1/4W	
R102	1-249-417-11	CARBON 1K 5% 1/4W	
R103	1-249-417-11	CARBON 1K 5% 1/4W	
R154	1-249-425-11	CARBON 4.7K 5% 1/4W	
R155	1-249-413-11	CARBON 470 5% 1/4W	
R205	1-249-435-11	CARBON 33K 5% 1/4W	
R206	1-249-430-11	CARBON 12K 5% 1/4W	
R210	1-249-432-11	CARBON 18K 5% 1/4W	
R211	1-247-725-11	CARBON 10K 5% 1/4W	
R212	1-249-429-11	CARBON 10K 5% 1/4W	
R213	1-249-421-11	CARBON 2.2K 5% 1/4W	
R214	1-249-429-11	CARBON 10K 5% 1/4W	
R251	1-249-441-11	CARBON 100K 5% 1/4W	
R253	1-249-418-11	CARBON 1.2K 5% 1/4W	
R254	1-249-385-11	CARBON 2.2 5% 1/4W	
R255	1-249-397-11	CARBON 22 5% 1/4W	
R257	1-249-429-11	CARBON 10K 5% 1/4W	
R266	1-249-441-11	CARBON 100K 5% 1/4W	
R302	1-249-419-11	CARBON 1.5K 5% 1/4W	
R303	1-249-417-11	CARBON 1K 5% 1/4W	
R304	1-247-899-11	CARBON 680K 5% 1/4W	
R305	1-247-704-11	CARBON 220 5% 1/4W	

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The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

REF.NO.	PART NO.	DESCRIPTION				REMARK
R306	1-247-704-11	CARBON	220	5%	1/4W	
R307	1-247-704-11	CARBON	220	5%	1/4W	
R308	1-247-703-11	CARBON	180	5%	1/4W	
R309	1-249-425-11	CARBON	4.7K	5%	1/4W	
R310	1-249-413-11	CARBON	470	5%	1/4W	
R311	1-215-455-00	METAL	27K	1%	1/6W	
R312	1-249-751-11	CARBON	3.3M	5%	1/4W	
R313	1-247-707-11	CARBON	390	5%	1/4W	
R314	1-249-437-11	CARBON	47K	5%	1/4W	
R315	1-249-413-11	CARBON	470	5%	1/4W	
R316	1-249-412-11	CARBON	390	5%	1/4W	
R317	1-249-417-11	CARBON	1K	5%	1/4W	
R318	1-249-417-11	CARBON	1K	5%	1/4W	
R319	1-249-433-11	CARBON	22K	5%	1/4W	
R320	1-249-409-11	CARBON	220	5%	1/4W	
R322	1-249-433-11	CARBON	22K	5%	1/4W	
R324	1-247-891-00	CARBON	330K	5%	1/4W	
R325	1-249-441-11	CARBON	100K	5%	1/4W	
R326	1-247-887-00	CARBON	220K	5%	1/4W	
R330	1-249-469-11	CARBON	100K	5%	1/4W	
R506	1-249-405-11	CARBON	100	5%	1/4W	
R507	1-247-713-11	CARBON	1K	5%	1/4W	
R517	1-249-429-11	CARBON	10K	5%	1/4W	
R518	1-247-722-11	CARBON	5.6K	5%	1/4W	
R520	1-249-414-11	CARBON	560	5%	1/4W	
R521	1-249-431-11	CARBON	15K	5%	1/4W	
R522	1-249-409-11	CARBON	220	5%	1/4W	
R532	1-247-706-11	CARBON	330	5%	1/4W	
R551	1-247-724-11	CARBON	8.2K	5%	1/4W	
R552	1-215-867-00	METAL OXIDE	470	5%	1W	F
R556	1-247-744-11	CARBON	270	5%	1/2W	
R557	1-216-352-11	METAL OXIDE	1.8	5%	1W	F
R558	1-249-433-11	CARBON	22K	5%	1/4W	
R559	1-249-418-11	CARBON	1.2K	5%	1/4W	
R560	1-249-405-11	CARBON	100	5%	1/4W	
R561	1-249-417-11	CARBON	1K	5%	1/4W	
R601	1-215-915-11	METAL OXIDE	470	5%	3W	F
R602	1-205-949-11	WIREWOUND	1.8	5%	10W	
R603	1-249-485-11	CARBON	8.2	5%	1/2W	F
R604	1-214-929-00	CARBON	470K	5%	1/2W	
R605 ⚠	1-205-949-11	WIREWOUND	1.8	5%	10W	F
R607	1-249-443-11	CARBON	0.47	5%	1/4W	F
R609	1-215-908-00	METAL OXIDE	33	5%	3W	F
R613	1-249-447-11	CARBON	1	5%	1/4W	F
R615	1-249-472-11	CARBON	0.68	5%	1/2W	F
R801	1-249-426-11	CARBON	5.6K	5%	1/4W	
R803	1-215-922-11	METAL OXIDE	6.8K	5%	3W	F
R804	1-247-721-11	CARBON	4.7K	5%	1/4W	F
R805	1-249-433-11	CARBON	22K	5%	1/4W	
R806	1-215-922-11	METAL OXIDE	6.8K	5%	3W	F
R810	1-247-713-11	CARBON	1K	5%	1/4W	
R814	1-215-871-11	METAL OXIDE	2.2K	5%	1W	F
R815	1-215-946-11	METAL OXIDE	4.7K	5%	5W	F
R822	1-249-437-11	CARBON	47K	5%	1/4W	
R823	1-215-871-11	METAL OXIDE	2.2K	5%	1W	F
R824	1-249-436-11	CARBON	39K	5%	1/4W	
R825	1-247-723-11	CARBON	6.8K	5%	1/4W	
R826	1-249-423-11	CARBON	3.3K	5%	1/4W	
R827	1-249-417-11	CARBON	1K	5%	1/4W	F
R828	1-249-433-11	CARBON	22K	5%	1/4W	
R829	1-247-893-11	CARBON	390K	5%	1/4W	
R830	1-249-427-11	CARBON	6.8K	5%	1/4W	
R831	1-215-862-11	METAL OXIDE	68	5%	1W	F
R832	1-249-421-11	CARBON	2.2K	5%	1/4W	
R833 ⚠	1-212-865-51	FUSIBLE	22	5%	1/4W	F
R836	1-249-437-11	CARBON	47K	5%	1/4W	
R851	1-249-382-11	CARBON	1.2	5%	1/4W	F
R852	1-215-869-11	METAL OXIDE	1K	5%	1W	F
R853	1-249-377-11	CARBON	0.47	5%	1/4W	F
R854	1-249-377-11	CARBON	0.47	5%	1/4W	F
R855	1-202-826-00	SOLID	4.7K	10%	1/2W	
R856	1-249-426-11	CARBON	5.6K	5%	1/4W	
R857	1-247-881-00	CARBON	120K	5%	1/4W	
R858	1-216-446-00	METAL OXIDE	18	5%	2W	F
R859	1-216-431-11	METAL OXIDE	560	5%	1W	F
R860	1-247-883-00	CARBON	150K	5%	1/4W	
R861	1-247-883-00	CARBON	150K	5%	1/4W	
R862	1-249-441-11	CARBON	100K	5%	1/4W	
R863	1-247-903-00	CARBON	1M	5%	1/4W	
R864	1-249-455-11	CARBON	4.7	5%	1/4W	F
R865	1-249-377-11	CARBON	0.47	5%	1/4W	F

<VARIABLE RESISTOR>

RV001	1-238-015-11	RES, ADJ, CARBON 4.7K
RV301	1-238-011-11	RES, ADJ, CARBON 470
RV302	1-238-019-11	RES, ADJ, CARBON 47K
RV502	1-238-016-11	RES, ADJ, CARBON 10K
RV503	1-238-009-11	RES, ADJ, CARBON 220
RV551	1-224-250-99	RES, ADJ, METAL GLAZE 2.2K
RV801	1-223-102-00	RES, ADJ, WIREWOUND 120
RV802	1-238-019-11	RES, ADJ, CARBON 47K

<SWITCH>

S001	1-572-077-11	SWITCH, TACTILE
S002	1-572-077-11	SWITCH, TACTILE
S003	1-572-077-11	SWITCH, TACTILE
S004	1-572-077-11	SWITCH, TACTILE
S005	1-572-077-11	SWITCH, TACTILE
S006	1-572-076-11	SWITCH BLOCK
S007	1-572-076-11	SWITCH BLOCK
S008	1-572-076-11	SWITCH BLOCK
S009	1-572-076-11	SWITCH BLOCK
S010	1-572-076-11	SWITCH BLOCK
S601 ⚠	1-571-433-11	SWITCH, PUSH (AC POWER)

<SPARK GAP>

SG801	1-519-422-11	GAP, SPARK

<TRANSFORMER>

T301	1-404-524-11	DAT
T601 ⚠	1-421-776-11	LFT
T602 ⚠	1-418-935-12	SRT
T801 ⚠	1-437-078-11	TRANSFORMER, HORIZONTAL DRIVE
T851 ⚠	1-439-424-11	TRANSFORMER ASSY, FLYBACK (NX-1700L)

<THERMISTOR>

THP601 ⚠	1-808-059-31	THERMISTOR, POSITIVE

<TUNER>

TU151 ⚠	1-465-216-11	TUNER, ET (BT-EG201)

REF.NO.	PART NO.	DESCRIPTION			REMARK
		<CRYSTAL>			
X001	1-577-619-11	VIBRATOR, CRYSTAL			
X301	1-577-611-11	OSCILALTOR, CERAMIC			
X358	1-567-505-11	OSCILLATOR, CRYSTAL			
X443	1-567-504-11	OSCILLATOR, CRYSTAL			
		<MODULE>			
YCM301	1-235-833-11	YC MODULE			
YCM302	1-236-228-11	FILTER MODULE			
		**********			
	*1-630-438-11	SC BOARD			
		********			
	*1-565-483-11	CONNECTOR, BOARD TO BOARD 7P			
		<CAPACITOR>			
C401	1-124-477-11	ELECT	47MF	20%	16V
C402	1-101-004-00	CERAMIC	0.01MF		50V
C403	1-101-890-00	CERAMIC	75PF	5%	50V
C404	1-102-961-00	CERAMIC	27PF	5%	50V
C405	1-136-165-00	FILM	0.1MF	5%	50V
C406	1-102-816-00	CERAMIC	120PF	5%	50V
C407	1-124-791-11	ELECT	1MF	20%	50V
C408	1-108-689-11	MYLAR	0.0056MF	5%	50V
C409	1-101-004-00	CERAMIC	0.01MF		50V
C410	1-102-816-00	CERAMIC	120PF	5%	50V
C411	1-136-165-00	FILM	0.1MF	5%	50V
C412	1-102-959-00	CERAMIC	22PF	5%	50V
C413	1-101-890-00	CERAMIC	75PF	5%	50V
C414	1-102-816-00	CERAMIC	120PF	5%	50V
C415	1-136-165-00	FILM	0.1MF	5%	50V
C416	1-102-973-00	CERAMIC	100PF	5%	50V
		<IC>			
IC401	8-752-036-22	IC CXA1214P			
		<COIL>			
L401	1-408-411-00	INDUCTOR	15UH		
L402	1-408-411-00	INDUCTOR	15UH		
		<TRANSISTOR>			
Q401	8-729-119-78	TRANSISTOR 2SC2785-HFE			
		<RESISTOR>			
R401	1-247-704-11	CARBON	220	5%	1/4W
R402	1-249-412-11	CARBON	390	5%	1/4W
R403	1-249-412-11	CARBON	390	5%	1/4W
R404	1-249-408-11	CARBON	180	5%	1/4W
R405	1-249-417-11	CARBON	1K	5%	1/4W
R406	1-247-717-11	CARBON	2.2K	5%	1/4W
R407	1-247-903-00	CARBON	1M	5%	1/4W
		<TRANSFORMER>			
T401	1-404-496-00	COIL			
T402	1-404-496-00	COIL			
T403	1-404-584-11	COIL			
		**********			
	*A-1330-984-A	C BOARD, COMPLETE			
		**********			
	*1-506-371-00	PIN, CONNECTOR 2P			
	*1-508-768-00	PIN, CONNECTOR (5MM PITCH) 6P			
	1-526-814-11	SOCKET, PICTURE TUBE			
	*1-564-509-11	PLUG, CONNECTOR 6P			
		<CAPACITOR>			
C701	1-102-112-00	CERAMIC	330PF	10%	50V
C702	1-102-112-00	CERAMIC	330PF	10%	50V
C703	1-102-113-00	CERAMIC	390PF	10%	50V
C704	1-123-875-11	ELECT	10MF	20%	50V
C705	1-101-006-00	CERAMIC	0.047MF		50V
C706	1-123-875-11	ELECT	10MF	20%	50V
C707	1-129-718-00	FILM	0.022MF	10%	630V
C708	1-162-116-00	CERAMIC	680PF	10%	2KV
		<COIL>			
L701	1-408-423-00	INDUCTOR	150UH		
		<TRANSISTOR>			
Q701	8-729-906-38	TRANSISTOR 2SC3271-N			
Q702	8-729-906-38	TRANSISTOR 2SC3271-N			
Q703	8-729-906-38	TRANSISTOR 2SC3271-N			
		<RESISTOR>			
R701	1-249-414-11	CARBON	560	5%	1/4W
R702	1-249-422-11	CARBON	2.7K	5%	1/4W
R703	1-247-700-11	CARBON	100	5%	1/4W
R704	1-249-421-11	CARBON	2.2K	5%	1/4W
R705	1-249-412-11	CARBON	390	5%	1/4W
R706	1-249-422-11	CARBON	2.7K	5%	1/4W
R707	1-249-413-11	CARBON	470	5%	1/4W
R708	1-249-405-11	CARBON	100	5%	1/4W
R709	1-249-422-11	CARBON	2.7K	5%	1/4W
R710	1-249-412-11	CARBON	390	5%	1/4W
R711	1-249-423-11	CARBON	3.3K	5%	1/4W
R712	1-249-411-11	CARBON	330	5%	1/4W
R713	1-249-429-11	CARBON	10K	5%	1/4W
R714	1-247-700-11	CARBON	100	5%	1/4W
R715	1-202-824-00	SOLID	3.3K	10%	1/2W
R716	1-215-924-00	METAL OXIDE	15K	5%	3W F
R717	1-202-824-00	SOLID	3.3K	10%	1/2W
R718	1-215-924-00	METAL OXIDE	15K	5%	3W F
R719	1-202-824-00	SOLID	3.3K	10%	1/2W
R720	1-215-924-00	METAL OXIDE	15K	5%	3W F
R722	1-202-837-00	SOLID	82K	10%	1/2W
R723	1-202-846-00	SOLID	470K	10%	1/2W
R724	1-202-848-00	SOLID	680K	10%	1/2W
R725	1-202-843-11	SOLID	270K	10%	1/2W
R726	1-202-719-00	SOLID	1M	10%	1/2W
R727	1-202-814-11	SOLID	33K	10%	1/2W
R728	1-216-391-11	METAL OXIDE	1.5	5%	3W
R729	1-202-842-11	SOLID	220K	10%	1/2W
R730	1-202-549-00	SOLID	100	10%	1/2W
R731	1-249-405-11	CARBON	100	5%	1/4W

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

REF.NO.	PART NO.	DESCRIPTION				REMARK
R732	1-249-405-11	CARBON	100	5%	1/4W	
R733	1-249-405-11	CARBON	100	5%	1/4W	
		<VARIABLE RESISTOR>				
RV701	1-228-992-11	RES, ADJ, CARBON 3.3K				
RV702	1-228-992-11	RES, ADJ, CARBON 3.3K				
RV703	1-228-992-11	RES, ADJ, CARBON 3.3K				
RV704	1-228-992-11	RES, ADJ, CARBON 3.3K				
RV705	1-228-992-11	RES, ADJ, CARBON 3.3K				
RV706	1-228-995-00	RES, ADJ, CARBON 22K				
RV707⚠	1-230-641-21	RES, ADJ, METAL GLAZE 2.2M				
RV708	1-230-641-11	RES, ADJ, METAL GLAZE 2.2M				
RV709	1-230-798-11	RES, ADJ, METAL GLAZE 90M				
		**********				
	*1-630-437-11	K BOARD				
		*******				
⚠	1-537-249-11	TERMINAL BOARD, ANTENNA				
	*1-564-505-11	PLUG, CONNECTOR 2P				
	*1-564-508-11	PLUG, CONNECTOR 5P				
		<MODULE>				
AVM1	1-808-809-11	MODULE,VIDEO INSULATED (IVM-2)				
AVM2	1-235-784-12	INSULATED MODULE, AUDIO(IAM-1)				
		<CAPACITOR>				
C100 ⚠	1-164-002-51	CERAMIC	330PF	20%	400V	
C101 ⚠	1-164-002-51	CERAMIC	330PF	20%	400V	
C102 ⚠	1-164-002-51	CERAMIC	330PF	20%	400V	
C110	1-124-120-11	ELECT	220MF	20%	25V	
C111	1-162-318-11	CERAMIC	0.001MF	10%	500V	
C112 ⚠	1-162-578-51	CERAMIC	0.0047MF	20%	400V	
C113 ⚠	1-162-578-51	CERAMIC	0.0047MF	20%	400V	
C120	1-124-477-11	ELECT	47MF	20%	16V	
C121	1-126-101-11	ELECT	100MF	20%	16V	
C122	1-126-101-11	ELECT	100MF	20%	16V	
C123	1-124-477-11	ELECT	47MF	20%	16V	
C130	1-124-902-00	ELECT	0.47MF	20%	50V	
C131	1-126-101-11	ELECT	100MF	20%	16V	
C132	1-126-101-11	ELECT	100MF	20%	16V	
C133	1-124-477-11	ELECT	47MF	20%	16V	
C134	1-126-101-11	ELECT	100MF	20%	16V	
		<DIODE>				
D100	8-719-300-33	DIODE RU-3AM				
D120	8-719-016-42	DIODE MC932				
D130	8-719-016-42	DIODE MC932				
		<IC>				
IC101	8-759-982-25	IC RC78L09A				
		<RESISTOR>				
R110	1-249-377-11	CARBON	0.47	5%	1/4W	F
R111 ⚠	1-247-289-11	CARBON	8.2M	5%	1W	
R120	1-249-404-00	CARBON	82	5%	1/4W	
R121	1-249-401-11	CARBON	47	5%	1/4W	
R122	1-249-396-11	CARBON	18	5%	1/4W	
R123	1-249-396-11	CARBON	18	5%	1/4W	
R130	1-249-434-11	CARBON	27K	5%	1/4W	
R131	1-249-438-11	CARBON	56K	5%	1/4W	
R132	1-249-396-11	CARBON	18	5%	1/4W	
		<TRANSFORMER>				
T101	1-421-823-11	TRANSFORMER, PULSE				
		**********				
		MISCELLANEOUS				
		**********				
⚠	1-426-307-11	COIL, DEMAGNETIZATION				
⚠	1-451-279-21	DEFLECTION YOKE (Y19PXA)				
	1-452-032-00	MAGNET, DISK; 10MM ϕ				
	1-452-094-00	MAGNET, ROTATABLE DISK; 15MM ϕ				
	1-452-277-00	MAGNET, BMC				
	1-544-190-11	SPEAKER				
⚠	1-574-062-22	CORD, POWER (WITH CONNECTOR)				
	*1-575-691-11	CABLE, PIN				
V901 ⚠	8-737-951-05	PICTURE TUBE (A46JNL10X)				
		**********				
		ACCESSORIES AND PACKING MATERIALS				
		**********				
	PART NO.	DESCRIPTION				REMARK
⚠	1-417-149-11	MIXER, U/V				
	1-417-154-11	MATCHING TRANSFORMER, ANTENNA				
	1-465-316-11	REMOTE COMMANDER (RM-687C)				
	1-501-372-21	ANTENNA, TELESCOPIC				
	1-506-401-31	ADAPTOR, CONVERSION				
	3-751-063-41	MANUAL, INSTRUCTION				
	*4 392 859-01	BAG, PROTECTION				
	*4-397-462-01	CUSHION (UPPER) (ASSY)				
	*4-397-463-01	CUSHION (LOWER) (ASSY)				
	*4-397-464-01	INDIVIDUAL CARTON				